

RESULTS

OBSERVATIONS OF THE FIXED STARS

MADE WITH THE

MERIDIAN CIRCLE

AT THE

GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1880, 1881, AND 1882

UNDER THE DIRECTION OF THE LATE

NORMAN ROBERT POGSON, C.I.E., F.R.A.S.

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INTRODUCTION.

The present volume contains the results of the observations made with the Madras Meridian Circle in the years 1880, 1881, and 1882. The number of observations dealt with is 9,267 of which 2,325 were made in 1880, 3,492 in 1881, and 3,450 in 1882. The observers were P. Ragavachari (R) and L. Moghansing (M). For convenience a personal equation of $-0^{\circ}30'$ was applied to all the observations of R.A. made by the latter, but this does not affect the deduced places as each observer determined his own clock error.

After part of the 'Separate Results' for 1880 had been struck off it was discovered that the observations on certain days differed seriously from those made on other days and the divergence was finally traced to erroneous determinations of the meridian error. This was found to be due to a wrong position having been adopted for the star R. P. L. 14 (Groombridge 195). This error arose from using the proper motion given in the Greenwich *Nine-year Catalogue* for 1872 in bringing up the position of the star. The proper motion in R. A. there given is $-0^{\circ}171$ while that adopted in the *Ten-year Catalogue* from Auwers' Bradley is $+0^{\circ}0540$. The result was that the adopted position differed from the true position by more than $7''$. In the light of this discovery it was thought necessary to re-examine the adopted positions of all the other meridian stars, as most of them had been taken from the Radcliffe catalogue of polar stars published in the Radcliffe observations for 1855. In doing this use was made of all available data but for many of the stars used the only recent observations that could be found were those in the *Williams College Catalogue of North Polar Stars*. The result of this investigation was that several of the adopted positions were found to be in error, but none were so seriously wrong as Groombridge 195, and as most of the meridian errors had been determined in the later years from observations of at least six circumpolar stars the actual corrections which had to be applied to the meridian errors were, in most cases, small except for the days on which Groombridge 195 had been used. All the meridian errors have, however, been re-computed and the reductions have been revised

throughout. From 1881 onwards the reductions have been revised in duplicate but the labour involved has seriously delayed the publication of this volume. The circumstance that part of the "Separate Results" for 1880 had been struck off before the error was discovered accounts for the large number of errata in that part.

As regards the volumes already published the effect of these errors has not yet been fully examined, but it may be here noted that Groombridge 195 was used for determination of the meridian error in 1874, June 9, October 31, November 2, 9, and 12 to 30; 1875, March 23 to April 5, November, 2, 19 to 23, and 30; 1876, April 28 and May 9; 1877, April 30, May 2, November 3 to 12, and December 10; 1879, November 8 to 24 and December 6 to 10. The errors due to this will be fully examined before the publication of next volume.

In preparing the present volume it has been found necessary to reject a considerable number of observations for several reasons. In examining cases of divergence between the different observations of the same star it was found in several cases that the observations in the transit book had evidently been tampered with, and in such cases the observations were rejected unless it was possible to determine what the original figures had been. Other observations were rejected on account of evident carelessness of the observer as shown by the reduction of the transits across each of the wires. In most of these cases the nights were more or less cloudy and it seems clear that, with the object of showing a large number of observations, the observers entered stars which ought to have been rejected on account of the interference caused by passing clouds. On the whole it is feared that the present volume compares somewhat unfavourably with those that have gone before, though every care has been taken to obtain the best possible results from the available data.

Instrumental Corrections adopted in 1880.

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	"	"	"	"	
Jan. 3	M	- 5.5	0.0	- 0.43	- 0.22	+ 0.05	- 0.32	
6	"	- 6.2	0.0	- 0.07	- 0.21	+ 0.09	- 0.31	
7	"	- 7.0	0.0	- 0.18	- 0.21	+ 0.04	- 0.31	40 R. P. L. & ε Urs. Min.
8	"	- 6.9	0.0	- 0.38	- 0.22	+ 0.02	- 0.32	
9	"	- 8.3	0.0	- 0.32	- 0.22	+ 0.03	- 0.32	
10	"	- 8.9	0.0	- 0.31	- 0.22	+ 0.05	- 0.32	
12	"	- 8.6	0.0	- 0.18	- 0.24	+ 0.04	- 0.33	
13	"	- 9.8	0.0	- 0.09	- 0.26	+ 0.05	- 0.33	
15	"	- 11.2	0.0	- 0.27	- 0.27	+ 0.03	- 0.34	40 R. P. L. & ε Urs. Min.
16	"	- 9.7	0.0	- 0.22	- 0.25	+ 0.05	- 0.35	
17	"	- 11.3	0.0	- 0.17	- 0.24	+ 0.05	- 0.36	
19	"	- 12.8	0.0	- 0.37	- 0.21	+ 0.05	- 0.36	
20	"	- 12.3	0.0	- 0.32	- 0.22	+ 0.03	- 0.36	
21	"	- 11.4	0.0	- 0.21	- 0.17	+ 0.03	- 0.37	
22	"	- 10.8	0.0	- 0.26	- 0.19	+ 0.02	- 0.37	40 R. P. L. & ε Urs. Min.
23	"	- 11.8	0.0	- 0.30	- 0.18	+ 0.03	- 0.37	
24	"	- 11.7	0.0	- 0.32	- 0.18	+ 0.10	- 0.37	
26	"	- 11.4	0.0	- 0.39	- 0.18	+ 0.07	- 0.38	
27	"	- 12.2	0.0	- 0.35	- 0.13	+ 0.08	- 0.38	
31	"	- 9.4	0.0	- 0.23	- 0.14	+ 0.05	- 0.39	
Feb. 2	"	- 8.0	0.0	- 0.12	- 0.17	+ 0.01	- 0.40	κ Orionis and 51 Cephei.
3	"	- 8.2	0.0	- 0.13	- 0.19	+ 0.05	- 0.39	
4	"	- 8.1	0.0	- 0.24	- 0.19	+ 0.06	- 0.38	
5	"	- 7.2	0.0	- 0.21	- 0.19	+ 0.01	- 0.38	
6	"	- 6.4	0.0	- 0.16	- 0.19	+ 0.02	- 0.37	40 R. P. L. & δ Urs. Min.
7	"	- 8.0	0.0	- 0.23	- 0.20	+ 0.03	- 0.38	
9	"	- 8.4	0.0	- 0.30	- 0.21	+ 0.01	- 0.40	
10	"	- 8.5	0.0	- 0.20	- 0.22	0.00	- 0.42	
11	"	- 9.1	0.0	- 0.07	- 0.21	+ 0.03	- 0.44	
12	"	- 9.5	0.0	- 0.01	- 0.22	+ 0.02	- 0.45	40 R. P. L. & δ Urs. Min.
13	"	- 10.1	0.0	- 0.10	- 0.23	- 0.01	- 0.43	
14	"	- 10.0	0.0	- 0.17	- 0.19	+ 0.03	- 0.41	
16	"	- 10.2	0.0	- 0.16	- 0.19	+ 0.02	- 0.36	
17	"	- 9.1	0.0	- 0.07	- 0.15	0.00	- 0.34	
18	"	- 8.5	0.0	- 0.03	- 0.12	+ 0.01	- 0.32	40 and 143 R. P. L.
20	"	- 6.7	0.0	+ 0.01	- 0.13	+ 0.02	- 0.44	
21	"	- 6.4	0.0	- 0.04	- 0.16	+ 0.01	- 0.52	69, 141 R. P. L. & 76 Draconis.
23	"	- 6.3	0.0	+ 0.07	- 0.16	+ 0.01	- 0.45	
24	"	- 7.1	0.0	+ 0.13	- 0.16	+ 0.02	- 0.42	
25	"	- 7.6	0.0	+ 0.03	- 0.15	+ 0.04	- 0.39	60 and 141 R. P. L.
26	"	- 7.4	0.0	+ 0.03	- 0.14	+ 0.06	- 0.43	
27	"	- 8.1	0.0	+ 0.05	- 0.14	+ 0.06	- 0.47	69, 141 R. P. L. & 76 Draconis.
28	"	- 7.8	0.0	0.00	- 0.13	+ 0.08	- 0.43	69, 141 R. P. L. & 76 Draconis.
Mar. 1	R	- 8.8	0.0	- 0.03	- 0.11	+ 0.03	- 0.39	40 and 141 R. P. L.
2	"	- 7.9	0.0	- 0.07	- 0.11	+ 0.02	- 0.41	40, 141 R. P. L. & 76 Draconis.
3	"	- 9.4	0.0	- 0.04	- 0.12	+ 0.03	- 0.39	40, 141 R. P. L. & 76 Draconis.
4	"	- 8.4	0.0	- 0.03	- 0.13	+ 0.02	- 0.40	43 and 141 R. P. L.
5	"	- 9.6	0.0	0.00	- 0.13	+ 0.01	- 0.42	51 Cephei and 141 R. P. L.
6	"	- 9.1	0.0	+ 0.09	- 0.16	+ 0.02	- 0.40	60 and 141 R. P. L.
15	"	- 11.3	0.0	- 0.17	- 0.08	+ 0.04	- 0.39	
17	"	- 11.8	0.0	- 0.10	- 0.06	+ 0.03	- 0.39	79 and 158 R. P. L.
19	"	- 11.0	0.0	- 0.21	- 0.04	+ 0.04	- 0.33	79 and 131 R. P. L.
22	"	- 10.4	0.0	- 0.29	+ 0.05	+ 0.05	- 0.33	
24	"	- 11.1	0.0	- 0.22	+ 0.11	+ 0.06	- 0.32	
Apr. 3	"	- 10.1	0.0	- 0.11	+ 0.02	+ 0.03	- 0.31	

Instrumental Corrections adopted in 1880.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Apl. 7	T	- 10.2	0.0	- 0.08	+ 0.08	+ 0.03	- 0.30	49 and 143 R. P. L.
10	"	- 9.7	0.0	- 0.09	+ 0.04	+ 0.01	- 0.36	
13	"	- 9.8	0.0	- 0.21	+ 0.07	+ 0.02	- 0.41	69 and 143 R. P. L.
15	"	- 10.5	0.0	- 0.19	+ 0.13	+ 0.07	- 0.37	
17	"	- 9.9	0.0	- 0.19	+ 0.12	+ 0.06	- 0.34	60 and 158 R. P. L.
19	"	- 9.3	0.0	- 0.09	+ 0.12	+ 0.06	- 0.35	
22	"	- 10.1	0.0	+ 0.04	+ 0.15	+ 0.09	- 0.38	
24	"	- 9.0	0.0	0.00	+ 0.11	0.00	- 0.40	
26	"	- 9.1	0.0	- 0.01	+ 0.09	+ 0.02	- 0.42	69 and 158 R. P. L.
29	"	- 9.5	0.0	+ 0.02	+ 0.18	+ 0.12	- 0.43	
May 1	R	- 8.5	0.0	- 0.03	+ 0.05	- 0.01	- 0.44	70 and 150 R. P. L.
4	"	- 9.1	0.0	- 0.09	+ 0.15	+ 0.04	- 0.46	
5	"	- 9.3	0.0	- 0.03	+ 0.10	+ 0.03	- 0.46	
6	"	- 9.1	0.0	- 0.01	+ 0.12	+ 0.02	- 0.46	103 and 158 R. P. L.
7	"	- 9.0	0.0	- 0.06	+ 0.10	+ 0.03	- 0.44	
8	"	- 9.6	0.0	- 0.06	+ 0.12	+ 0.02	- 0.42	
10	"	- 8.6	0.0	- 0.08	+ 0.11	+ 0.03	- 0.36	89 and 158 R. P. L.
11	"	- 8.2	0.0	- 0.07	+ 0.12	+ 0.03	- 0.35	
12	"	- 8.8	0.0	- 0.21	+ 0.10	+ 0.02	- 0.34	
13	"	- 8.8	0.0	+ 0.10	+ 0.09	+ 0.02	- 0.32	
14	"	- 9.3	0.0	+ 0.12	+ 0.10	+ 0.05	- 0.31	
15	"	- 8.7	0.0	+ 0.11	+ 0.10	+ 0.03	- 0.29	
17	"	- 8.2	0.0	+ 0.07	+ 0.11	+ 0.04	- 0.27	
18	"	- 8.8	0.0	+ 0.05	+ 0.11	+ 0.02	- 0.26	
19	"	- 9.0	0.0	+ 0.06	+ 0.11	+ 0.03	- 0.25	108 and 26 R. P. L.
20	"	- 9.5	0.0	+ 0.05	+ 0.11	+ 0.04	- 0.25	
22	"	- 9.0	0.0	+ 0.04	+ 0.11	+ 0.03	- 0.26	
24	"	- 8.9	0.0	+ 0.05	+ 0.11	+ 0.02	- 0.26	
25	"	- 8.9	0.0	+ 0.03	+ 0.12	+ 0.03	- 0.27	
27	"	- 9.4	0.0	- 0.12	+ 0.12	+ 0.04	- 0.27	τ Virginis and 111 R.P.L.
28	"	- 8.5	0.0	- 0.11	+ 0.11	+ 0.02	- 0.27	
29	"	- 8.3	0.0	- 0.06	+ 0.12	+ 0.03	- 0.27	
June 1	"	- 8.5	0.0	+ 0.04	+ 0.12	+ 0.03	- 0.28	
2	"	- 8.3	0.0	+ 0.08	+ 0.12	+ 0.03	- 0.28	
3	"	- 9.2	0.0	+ 0.02	+ 0.11	+ 0.03	- 0.29	
4	"	- 9.0	0.0	- 0.07	+ 0.12	+ 0.02	- 0.29	115 and 33 R. P. L.
5	"	- 9.0	0.0	- 0.01	+ 0.12	+ 0.03	- 0.28	
7	"	- 8.9	0.0	+ 0.08	+ 0.12	+ 0.03	- 0.27	
8	"	- 9.4	0.0	0.00	+ 0.13	+ 0.03	- 0.26	
9	"	- 8.6	0.0	- 0.06	+ 0.13	+ 0.01	- 0.26	
16	"	- 9.6	0.0	- 0.09	+ 0.10	+ 0.03	- 0.21	
17	"	- 9.9	0.0	- 0.09	+ 0.10	+ 0.02	- 0.20	115 and 33 R. P. L.
18	"	- 9.9	0.0	- 0.07	+ 0.11	+ 0.02	- 0.20	
19	"	- 10.4	0.0	- 0.06	+ 0.11	+ 0.02	- 0.20	
28	"	- 9.4	0.0	- 0.02	+ 0.13	+ 0.04	- 0.19	
July 5	M	- 12.3	0.0	+ 0.04	+ 0.05	+ 0.05	- 0.18	
9	"	- 9.9	0.0	- 0.10	+ 0.01	+ 0.06	- 0.18	
10	"	- 11.9	0.0	- 0.14	+ 0.03	+ 0.03	- 0.18	
13	"	- 9.9	0.0	- 0.07	+ 0.02	+ 0.03	- 0.17	
15	"	- 10.4	0.0	- 0.14	- 0.01	+ 0.03	- 0.17	
16	"	- 9.9	0.0	- 0.05	+ 0.04	+ 0.04	- 0.17	
17	"	- 10.7	0.0	+ 0.07	+ 0.04	+ 0.03	- 0.17	111 R.P.L. & 1887 Radcliffe.
20	"	- 9.4	0.0	+ 0.02	+ 0.07	+ 0.05	- 0.17	
23	"	- 10.8	0.0	+ 0.07	+ 0.06	+ 0.03	- 0.17	115 R. P. L. and β Libræ.

Instrumental Corrections adopted in 1880.

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	"	"	"	"	
July 27	R	- 10.5	0.0	+ 0.01	+ 0.08	+ 0.04	- 0.16	
28	"	- 10.9	0.0	+ 0.01	+ 0.04	+ 0.05	- 0.16	
29	"	- 10.3	0.0	- 0.07	+ 0.05	+ 0.05	- 0.16	
30	M	- 10.5	0.0	- 0.07	+ 0.03	+ 0.04	- 0.16	
31	"	- 10.5	0.0	+ 0.02	+ 0.04	+ 0.07	- 0.16	
Aug. 3	"	- 11.2	0.0	+ 0.01	+ 0.07	+ 0.06	- 0.15	
7	"	- 10.6	0.0	- 0.07	+ 0.07	+ 0.08	- 0.14	
9	"	- 9.3	0.0	+ 0.03	+ 0.09	+ 0.09	- 0.14	131 R. P. L. & θ Aquilæ.
10	"	- 10.0	0.0	+ 0.16	+ 0.07	+ 0.06	- 0.18	
11	"	- 9.1	0.0	+ 0.17	+ 0.07	+ 0.05	- 0.23	λ Ursæ Min. & 1887 Radcliffe.
14	"	- 9.2	0.0	+ 0.01	+ 0.04	0.00	- 0.22	
18	"	- 8.8	0.0	+ 0.02	0.00	+ 0.09	- 0.22	
19	"	- 9.2	0.0	+ 0.01	- 0.04	+ 0.03	- 0.23	
20	"	- 7.8	0.0	- 0.02	- 0.05	+ 0.06	- 0.23	
23	"	- 9.0	0.0	+ 0.10	- 0.05	+ 0.07	- 0.23	
24	"	- 8.3	0.0	+ 0.16	- 0.07	+ 0.05	- 0.23	
25	"	- 7.7	0.0	+ 0.16	- 0.06	+ 0.04	- 0.23	δ Ursæ Min. & 40 R. P. L.
30	"	- 7.8	0.0	+ 0.28	- 0.10	+ 0.08	- 0.27	
31	"	- 8.4	0.0	+ 0.15	- 0.12	+ 0.07	- 0.28	
Sep. 1	R	- 8.8	0.0	0.00	- 0.11	+ 0.06	- 0.29	
3	"	- 9.1	0.0	0.00	- 0.17	+ 0.02	- 0.31	
4	"	- 7.0	0.0	0.00	- 0.20	+ 0.04	- 0.31	
6	"	- 4.1	0.0	- 0.08	- 0.21	+ 0.04	- 0.33	
7	"	- 4.2	0.0	- 0.12	- 0.20	+ 0.04	- 0.34	λ Sagittarii & δ Urs. Min.
13	"	+ 0.6	0.0	- 0.42	- 0.37	- 0.05	- 0.28	
14	"	+ 2.1	0.0	- 0.47	- 0.27	+ 0.03	- 0.26	
15	"	+ 0.8	0.0	- 0.42	- 0.19	+ 0.03	- 0.27	150 and 72 R. P. L.
16	"	+ 1.7	0.0	0.00	- 0.21	+ 0.04	- 0.27	
17	"	- 0.6	0.0	- 0.38	- 0.15	+ 0.08	- 0.26	
18	"	- 0.4	0.0	- 0.39	- 0.14	+ 0.04	- 0.26	
20	"	- 1.4	0.0	- 0.27	- 0.11	+ 0.03	- 0.25	
21	"	- 1.5	0.0	- 0.20	- 0.10	+ 0.05	- 0.25	141 and 49 R. P. L.
22	"	- 2.7	0.0	- 0.03	- 0.05	+ 0.06	- 0.25	
23	"	- 2.4	0.0	- 0.05	- 0.08	+ 0.03	- 0.28	141 R. P. L. & 1887 Radcliffe.
24	"	- 2.2	0.0	0.00	- 0.05	+ 0.04	- 0.26	
28	"	- 5.0	0.0	- 0.20	- 0.04	+ 0.03	- 0.17	
29	"	- 4.9	0.0	- 0.16	- 0.02	+ 0.01	- 0.15	141 and 49 R. P. L.
30	"	- 4.4	0.0	- 0.09	- 0.04	+ 0.04	- 0.17	141 and 49 R. P. L.
Oct. 1	M	- 6.2	0.0	- 0.09	- 0.06	+ 0.04	- 0.19	
2	"	- 6.7	0.0	- 0.07	- 0.08	+ 0.03	- 0.22	141 and 49 R. P. L.
4	"	- 6.8	0.0	+ 0.07	- 0.11	- 0.01	- 0.24	141 and 49 R. P. L.
5	"	- 6.2	0.0	+ 0.06	- 0.12	+ 0.01	- 0.24	
6	"	- 8.0	0.0	+ 0.11	- 0.11	+ 0.05	- 0.24	
7	"	- 7.6	0.0	+ 0.14	- 0.10	+ 0.04	- 0.24	
8	"	- 8.4	0.0	+ 0.12	- 0.09	+ 0.07	- 0.24	
9	"	- 8.8	0.0	+ 0.12	- 0.08	+ 0.04	- 0.25	
13	"	- 9.3	0.0	+ 0.21	- 0.09	+ 0.05	- 0.25	
14	"	- 8.8	0.0	+ 0.15	- 0.08	+ 0.02	- 0.25	2 Urs. Min. & 93 R. P. L.
15	"	- 8.4	0.0	+ 0.05	- 0.06	+ 0.06	- 0.23	
16	"	- 9.4	0.0	+ 0.03	- 0.05	+ 0.03	- 0.20	
20	"	- 4.9	0.0	- 0.03	- 0.12	+ 0.04	- 0.11	150 and 72 R. P. L.
21	"	- 2.2	0.0	0.00	- 0.13	+ 0.06	- 0.12	
25	"	+ 0.4	0.0	+ 0.08	- 0.18	+ 0.06	- 0.13	2 Urs. Min. & 93 R. P. L.
26	"	- 0.4	0.0	+ 0.08	- 0.12	+ 0.09	- 0.14	
27	"	- 0.9	0.0	+ 0.19	- 0.13	+ 0.05	- 0.16	

Instrumental Corrections adopted in 1880.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Oct. 28	M	- 1.8	0.0	+ 0.08	- 0.16	+ 0.02	- 0.17	2 Urs. Min. & 93 R. P. L.
29	"	- 2.2	0.0	+ 0.08	- 0.12	+ 0.04	- 0.18	
30	"	- 1.8	0.0	- 0.04	- 0.11	+ 0.04	- 0.17	
Nov. 1	R	- 1.1	- 0.1	- 0.18	- 0.11	+ 0.03	- 0.16	150 and 72 R. P. L.
2	"	- 0.8	- 0.1	- 0.19	- 0.12	+ 0.04	- 0.16	
5	"	+ 0.8	- 0.1	- 0.19	- 0.22	+ 0.04	- 0.15	
6	"	0.0	- 0.1	- 0.17	- 0.13	+ 0.03	- 0.14	* Cephei and 89 R. P. L.
8	"	0.0	- 0.1	+ 0.04	- 0.12	+ 0.03	- 0.17	
9	"	- 0.1	- 0.1	+ 0.03	- 0.13	+ 0.04	- 0.18	
11	"	+ 0.1	- 0.1	- 0.19	- 0.15	+ 0.03	- 0.22	Polaris and 89 R. P. L.
12	"	- 0.4	- 0.1	- 0.06	- 0.12	+ 0.04	- 0.23	
13	"	+ 1.4	- 0.1	0.00	- 0.15	+ 0.02	- 0.25	
16	"	+ 0.2	- 0.1	- 0.24	- 0.14	+ 0.02	- 0.16	α Pegasi and 89 R. P. L.
17	"	+ 0.6	- 0.1	- 0.16	- 0.13	+ 0.03	- 0.13	
18	"	- 0.8	- 0.1	- 0.12	- 0.13	+ 0.02	- 0.19	
19	"	- 1.1	- 0.1	- 0.18	- 0.15	+ 0.02	- 0.24	26 and 108 R. P. L.
22	"	+ 1.0	- 0.1	- 0.21	- 0.13	+ 0.02	- 0.23	
24	"	+ 1.1	- 0.1	- 0.20	- 0.13	+ 0.02	- 0.22	
25	"	+ 1.0	- 0.1	- 0.25	- 0.13	+ 0.02	- 0.21	2 Urs. Min. & 89 R. P. L.
Dec. 3	"	+ 6.5	0.0	- 0.07	+ 0.25	+ 0.02	- 0.15	33 and 89 R. P. L.
4	"	+ 6.4	0.0	- 0.10	+ 0.29	+ 0.02	- 0.15	
7	"	+ 6.8	0.0	- 0.33	+ 0.27	+ 0.02	- 0.14	
8	"	+ 5.7	0.0	- 0.27	+ 0.28	+ 0.02	- 0.20	14 and 99 R. P. L.
9	"	+ 5.7	0.0	- 0.23	+ 0.24	+ 0.04	- 0.25	
10	M	+ 7.6	0.0	- 0.31	+ 0.23	+ 0.06	- 0.31	
11	"	+ 5.8	0.0	- 0.39	+ 0.22	+ 0.09	- 0.26	26 R. P. L. and ε Urs. Min.
13	"	+ 4.1	0.0	- 0.35	+ 0.17	+ 0.05	- 0.29	
14	"	+ 3.8	0.0	- 0.28	+ 0.15	+ 0.04	- 0.24	
15	"	+ 2.3	0.0	- 0.32	+ 0.13	+ 0.03	- 0.34	26 R. P. L. and ε Urs. Min.
16	"	+ 2.9	0.0	- 0.29	+ 0.14	+ 0.05	- 0.34	
17	"	+ 1.6	0.0	- 0.28	+ 0.11	- 0.01	- 0.34	
18	"	+ 1.7	0.0	- 0.34	+ 0.06	+ 0.01	- 0.34	26 and 93 R. P. L.
20	"	+ 1.3	0.0	- 0.36	- 0.04	- 0.04	- 0.33	
22	R	+ 1.8	0.0	- 0.45	+ 0.04	+ 0.04	- 0.33	
25	"	+ 0.6	0.0	- 0.37	- 0.05	+ 0.04	- 0.34	35 and 111 R. P. L.
27	"	+ 2.1	0.0	- 0.55	- 0.14	+ 0.01	- 0.36	
28	"	+ 1.8	0.0	- 0.90	- 0.05	+ 0.03	- 0.36	
29	"	+ 2.3	0.0	- 0.79	- 0.07	+ 0.03	- 0.36	34 and 111 R. P. L.
30	M	+ 3.1	0.0	- 0.39	- 0.04	+ 0.04	- 0.34	
31	"	+ 2.1	0.0	- 0.46	- 0.06	+ 0.05	- 0.32	

Instrumental Corrections adopted in 1881.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 3	M	+ 2.0	0.0	- 0.46	- 0.03	+ 0.08	- 0.22	34 and 111 R. P. L.
4	"	+ 1.3	0.0	- 0.29	- 0.07	+ 0.04	- 0.24	
5	"	+ 1.8	0.0	- 0.38	- 0.03	+ 0.02	- 0.27	
6	"	+ 0.1	0.0	- 0.35	- 0.29	+ 0.01	- 0.20	
8	"	- 1.4	0.0	- 0.29	- 0.04	+ 0.05	- 0.34	35 and 111 R. P. L.
12	"	+ 0.5	0.0	- 0.23	0.00	+ 0.04	- 0.28	
13	R	- 0.4	0.0	- 0.22	+ 0.01	+ 0.03	- 0.27	
15	M	- 0.9	0.0	- 0.25	+ 0.01	+ 0.04	- 0.24	34 and 111 R. P. L.
18	"	- 1.6	0.0	- 0.22	+ 0.03	+ 0.08	- 0.28	
19	"	- 1.6	0.0	- 0.26	- 0.01	+ 0.03	- 0.33	
20	"	- 1.9	0.0	- 0.28	- 0.03	+ 0.01	- 0.34	
21	"	- 3.6	0.0	- 0.27	- 0.04	+ 0.03	- 0.35	o Tauri and 111 R. P. L.
22	"	- 2.9	0.0	- 0.29	0.00	+ 0.08	- 0.35	
24	"	- 4.5	0.0	- 0.31	- 0.06	+ 0.03	- 0.36	
25	"	- 3.7	0.0	- 0.35	- 0.08	0.00	- 0.36	
26	"	- 6.3	0.0	- 0.43	- 0.09	+ 0.03	- 0.36	35 and 115 R. P. L.
27	"	- 6.3	0.0	- 0.46	- 0.09	+ 0.05	- 0.38	
28	"	- 5.9	0.0	- 0.39	- 0.08	+ 0.05	- 0.39	
29	"	- 5.4	0.0	- 0.35	- 0.12	+ 0.04	- 0.41	
31	"	- 8.0	0.0	- 0.58	- 0.16	+ 0.02	- 0.44	
Feb. 1	R	- 8.3	0.0	- 0.45	- 0.12	+ 0.04	- 0.46	35 R. P. L. and e Urs. Min.
2	"	- 8.2	0.0	- 0.24	- 0.12	+ 0.03	- 0.41	
3	"	- 8.6	0.0	- 0.30	- 0.13	+ 0.02	- 0.36	
4	"	- 8.6	0.0	- 0.31	- 0.10	+ 0.03	- 0.31	40 and 116 R. P. L.
5	"	- 9.1	0.0	- 0.26	- 0.09	+ 0.05	- 0.31	
7	"	- 10.1	0.0	- 0.36	- 0.12	+ 0.03	- 0.31	
8	"	- 9.4	0.0	- 0.23	- 0.10	+ 0.03	- 0.31	
9	"	- 9.2	0.0	- 0.19	- 0.11	+ 0.04	- 0.31	35 and 115 R. P. L.
10	"	- 9.2	0.0	- 0.26	- 0.10	+ 0.04	- 0.31	
11	"	- 8.9	0.0	- 0.23	- 0.12	+ 0.04	- 0.31	
12	"	- 9.1	0.0	- 0.23	- 0.11	+ 0.04	- 0.30	
14	"	- 9.5	0.0	- 0.48	- 0.12	+ 0.02	- 0.30	
15	"	- 9.1	0.0	- 0.58	- 0.07	+ 0.03	- 0.30	43 R. P. L. and 24 Urs. Min.
16	"	- 8.9	0.0	- 0.61	- 0.08	+ 0.01	- 0.30	
17	"	- 9.3	0.0	- 0.51	- 0.05	+ 0.02	- 0.30	
18	"	- 9.0	0.0	- 0.42	- 0.02	+ 0.04	- 0.30	
19	"	- 8.9	0.0	- 0.49	- 0.02	+ 0.02	- 0.30	
21	"	- 9.3	0.0	- 0.55	- 0.04	+ 0.02	- 0.30	49 and 143 R. P. L.
22	"	- 8.8	0.0	- 0.53	- 0.03	+ 0.03	- 0.30	
23	"	- 9.0	0.0	- 0.51	- 0.04	+ 0.02	- 0.30	
24	"	- 10.0	0.0	- 0.46	- 0.04	+ 0.02	- 0.30	
25	"	- 10.6	0.0	- 0.42	- 0.03	+ 0.03	- 0.30	43 and 131 R. P. L.
26	"	- 10.1	0.0	- 0.45	- 0.02	+ 0.04	- 0.31	
28	"	- 10.0	0.0	- 0.51	- 0.05	+ 0.03	- 0.32	49 and 131 R. P. L.
Mar. 1	M	- 9.4	0.0	- 0.59	- 0.01	+ 0.04	- 0.31	
2	"	- 10.4	0.0	- 0.45	+ 0.04	+ 0.09	- 0.30	
3	"	- 9.7	0.0	- 0.35	0.00	+ 0.06	- 0.29	
4	"	- 9.0	0.0	- 0.52	- 0.03	+ 0.02	- 0.29	
5	"	- 9.8	0.0	- 0.58	0.00	+ 0.01	- 0.28	
7	"	- 9.3	0.0	- 0.42	+ 0.02	+ 0.07	- 0.26	49 and 131 R. P. L.
8	"	- 9.5	0.0	- 0.42	+ 0.04	+ 0.05	- 0.27	
9	"	- 9.7	0.0	- 0.50	+ 0.01	+ 0.02	- 0.28	
10	"	- 9.4	0.0	- 0.39	+ 0.07	+ 0.04	- 0.29	
11	"	- 9.2	0.0	- 0.35	+ 0.04	+ 0.02	- 0.29	
12	"	- 9.1	0.0	- 0.48	+ 0.10	+ 0.03	- 0.30	
14	"	- 9.9	0.0	- 0.55	+ 0.07	+ 0.02	- 0.32	49 and 131 R. P. L.

INTRODUCTION.

Instrumental Corrections adopted in 1881.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars
Mar. 15	M	"	"	"	"	"	"	
16	"	- 9.2	0.0	- 0.44	+ 0.09	+ 0.06	- 0.34	
17	"	- 9.9	0.0	- 0.34	+ 0.10	+ 0.03	- 0.36	
18	"	- 9.6	0.0	- 0.40	+ 0.05	- 0.02	- 0.39	
19	"	- 10.0	0.0	- 0.32	+ 0.09	+ 0.01	- 0.41	
21	"	- 10.1	0.0	- 0.28	+ 0.06	- 0.04	- 0.43	60 and 131 R. P. L.
22	"	- 10.0	0.0	- 0.36	+ 0.10	- 0.03	- 0.36	
23	"	- 9.7	0.0	- 0.34	+ 0.12	- 0.01	- 0.32	
24	"	- 9.8	0.0	- 0.43	+ 0.12	- 0.01	- 0.29	
25	"	- 10.8	0.0	- 0.30	+ 0.18	+ 0.06	- 0.25	60 and 131 R. P. L.
26	"	- 10.6	0.0	- 0.27	+ 0.14	+ 0.01	- 0.26	
28	"	- 10.0	0.0	- 0.38	+ 0.15	+ 0.04	- 0.27	
29	"	- 10.1	0.0	- 0.23	+ 0.14	+ 0.03	- 0.29	
30	"	- 8.7	0.0	- 0.25	+ 0.13	0.00	- 0.30	60 and 151 R. P. L.
31	"	- 9.1	0.0	- 0.37	+ 0.15	+ 0.03	- 0.30	
	"	- 9.0	0.0	- 0.34	+ 0.18	+ 0.03	- 0.29	
Apl. 1	"	- 8.1	0.0	- 0.23	+ 0.15	+ 0.01	- 0.28	
2	"	- 8.4	0.0	- 0.32	+ 0.12	- 0.01	- 0.27	
4	R	- 8.0	0.0	- 0.37	+ 0.21	+ 0.04	- 0.26	70 and 150 R. P. L.
5	"	- 9.6	0.0	- 0.27	+ 0.20	+ 0.04	- 0.26	
6	"	- 9.6	0.0	- 0.26	+ 0.21	+ 0.03	- 0.26	
7	"	- 10.2	0.0	- 0.31	+ 0.19	+ 0.02	- 0.27	
8	"	- 9.2	0.0	- 0.36	+ 0.20	+ 0.03	- 0.27	70 and 150 R. P. L.
9	"	- 8.6	0.0	- 0.36	+ 0.21	+ 0.04	- 0.27	
11	"	- 8.6	0.0	- 0.31	+ 0.19	+ 0.02	- 0.26	
12	"	- 8.2	0.0	- 0.27	+ 0.21	+ 0.03	- 0.26	70 and 150 R. P. L.
13	"	- 8.0	0.0	- 0.20	+ 0.25	+ 0.03	- 0.26	
14	"	- 8.6	0.0	- 0.20	+ 0.22	+ 0.03	- 0.26	
15	"	- 8.2	0.0	- 0.28	+ 0.22	+ 0.03	- 0.27	
16	"	- 8.2	0.0	- 0.31	+ 0.22	+ 0.02	- 0.27	70 and 150 R. P. L.
19	"	- 8.0	0.0	- 0.21	+ 0.21	+ 0.03	- 0.26	
20	"	- 8.3	0.0	- 0.18	+ 0.21	+ 0.03	- 0.25	70 and 150 R. P. L.
21	"	- 8.4	0.0	- 0.18	+ 0.21	+ 0.03	- 0.24	
22	"	- 8.5	0.0	- 0.18	+ 0.22	+ 0.03	- 0.24	
23	"	- 8.9	0.0	- 0.20	+ 0.20	+ 0.02	- 0.23	
25	"	- 8.9	0.0	- 0.19	+ 0.22	+ 0.04	- 0.22	70 and 150 R. P. L.
26	"	- 9.1	0.0	- 0.21	+ 0.19	+ 0.02	- 0.22	
27	"	- 8.6	0.0	- 0.20	+ 0.23	+ 0.04	- 0.21	
28	"	- 8.5	0.0	- 0.21	+ 0.22	+ 0.02	- 0.21	
29	"	- 8.9	0.0	- 0.25	+ 0.22	+ 0.02	- 0.21	
30	"	- 7.7	0.0	- 0.17	+ 0.24	+ 0.02	- 0.21	
May 2	"	- 7.6	- 0.1	- 0.12	+ 0.27	+ 0.02	- 0.20	
3	"	- 8.1	- 0.1	- 0.02	+ 0.26	+ 0.05	- 0.20	72 and 150 R. P. L.
4	"	- 7.1	- 0.1	+ 0.03	+ 0.26	+ 0.02	- 0.26	
5	"	- 7.1	- 0.1	- 0.10	+ 0.28	+ 0.03	- 0.32	72 and 151 R. P. L.
6	"	- 7.2	- 0.1	- 0.02	+ 0.29	+ 0.05	- 0.29	
7	M	- 7.2	- 0.1	+ 0.06	+ 0.28	+ 0.04	- 0.26	
9	"	- 7.4	- 0.1	- 0.15	+ 0.34	+ 0.07	- 0.19	
10	"	- 6.7	- 0.1	- 0.14	+ 0.35	+ 0.08	- 0.16	79 and 18 R. P. L.
11	"	- 6.3	- 0.1	- 0.10	+ 0.35	+ 0.06	- 0.18	
12	"	- 6.5	- 0.1	- 0.08	+ 0.31	+ 0.04	- 0.20	
14	"	- 7.1	- 0.1	- 0.10	+ 0.33	+ 0.08	- 0.25	
16	"	- 6.8	- 0.1	- 0.21	+ 0.32	+ 0.04	- 0.20	
17	"	- 5.9	- 0.1	- 0.16	+ 0.33	+ 0.04	- 0.20	89 R. P. L. & β Centauri.
18	"	- 6.6	- 0.1	- 0.13	+ 0.33	0.00	- 0.20	
19	"	- 7.5	- 0.1	- 0.10	+ 0.30	+ 0.03	- 0.19	
20	"	- 6.9	- 0.1	- 0.03	+ 0.32	+ 0.05	- 0.19	
21	"	- 7.4	- 0.1	- 0.05	+ 0.33	+ 0.02	- 0.19	99 R. P. L. and Polaris.

Instrumental Corrections adopted in 1881.

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
May 23	M	- 7.8	- 0.1	- 0.08	+ 0.37	+ 0.07	- 0.20	
24	"	- 6.8	- 0.1	- 0.15	+ 0.41	+ 0.06	- 0.20	
25	"	- 7.6	- 0.1	- 0.04	+ 0.40	- 0.01	- 0.20	
26	"	- 6.6	- 0.1	+ 0.01	+ 0.32	- 0.06	- 0.21	
27	"	- 7.5	- 0.1	- 0.13	+ 0.33	- 0.05	- 0.21	99 and 18 R. P. L.
28	"	- 6.2	- 0.1	- 0.12	+ 0.33	0.00	- 0.20	
30	"	- 6.5	- 0.1	- 0.01	+ 0.32	- 0.01	- 0.18	
31	"	- 6.6	- 0.1	- 0.03	+ 0.31	+ 0.01	- 0.17	
June 2	R	- 6.2	0.0	- 0.13	+ 0.29	0.00	- 0.14	
4	"	- 9.1	0.0	- 0.20	+ 0.33	+ 0.01	- 0.12	
6	"	- 8.2	0.0	- 0.15	+ 0.33	+ 0.02	- 0.10	
7	"	- 6.4	0.0	- 0.09	+ 0.31	+ 0.02	- 0.09	115 and 34 R. P. L.
15	"	- 8.4	0.0	- 0.08	+ 0.28	+ 0.03	- 0.17	
16	"	- 8.1	0.0	- 0.07	+ 0.29	+ 0.02	- 0.18	115 and 34 R. P. L.
17	"	- 8.2	0.0	+ 0.04	+ 0.28	+ 0.04	- 0.16	
18	"	- 8.1	0.0	+ 0.09	+ 0.27	+ 0.03	- 0.14	
21	"	- 7.9	0.0	+ 0.01	+ 0.30	+ 0.03	- 0.09	
22	"	- 8.4	0.0	- 0.01	+ 0.27	+ 0.04	- 0.07	115 and 34 R. P. L.
23	"	- 8.1	0.0	0.00	+ 0.28	+ 0.02	- 0.06	
24	"	- 8.2	0.0	+ 0.01	+ 0.27	+ 0.03	- 0.06	
25	"	- 8.2	0.0	- 0.05	+ 0.29	+ 0.04	- 0.05	
28	"	- 8.5	0.0	- 0.10	+ 0.25	+ 0.02	- 0.04	
29	"	- 8.6	0.0	- 0.13	+ 0.27	+ 0.02	- 0.03	ε Urs. Min. and 33 R. P. L.
30	"	- 8.2	0.0	- 0.14	+ 0.29	+ 0.04	- 0.02	
July 5	"	- 6.5	0.0	- 0.06	+ 0.26	+ 0.07	0.00	
11	"	- 6.5	0.0	- 0.07	+ 0.27	+ 0.05	+ 0.04	
13	"	- 8.8	0.0	- 0.10	+ 0.37	+ 0.05	+ 0.05	
14	"	- 8.9	0.0	- 0.11	+ 0.31	+ 0.01	+ 0.05	
16	"	- 9.2	0.0	- 0.06	+ 0.36	+ 0.04	+ 0.06	
18	"	- 8.8	0.0	- 0.11	+ 0.35	+ 0.04	+ 0.07	
19	"	- 9.3	0.0	- 0.12	+ 0.36	+ 0.02	+ 0.08	ε Urs. Min. and 34 R. P. L.
20	"	- 9.1	0.0	- 0.13	+ 0.36	+ 0.05	+ 0.10	
21	"	- 9.7	0.0	- 0.19	+ 0.35	+ 0.03	+ 0.12	
22	"	- 7.9	0.0	- 0.13	+ 0.40	+ 0.04	+ 0.13	
23	"	- 8.6	0.0	- 0.09	+ 0.34	+ 0.01	+ 0.15	
25	"	- 9.2	0.0	- 0.08	+ 0.37	+ 0.03	+ 0.19	
26	"	- 9.1	0.0	- 0.14	+ 0.35	+ 0.01	+ 0.21	ε Urs. Min. and 40 R. P. L.
27	"	- 9.1	0.0	- 0.16	+ 0.37	+ 0.03	+ 0.20	
28	"	- 9.0	0.0	- 0.06	+ 0.37	+ 0.04	+ 0.20	
29	"	- 9.1	0.0	- 0.02	+ 0.36	+ 0.02	+ 0.19	
30	"	- 9.0	0.0	- 0.05	+ 0.37	+ 0.03	+ 0.18	
Aug. 10	M	- 8.7	- 0.1	- 0.32	+ 0.27	+ 0.04	+ 0.10	
11	"	- 7.2	- 0.1	- 0.14	+ 0.30	+ 0.06	+ 0.10	
12	"	- 8.3	- 0.1	+ 0.07	+ 0.26	+ 0.02	+ 0.09	
13	"	- 6.2	- 0.1	- 0.01	+ 0.22	+ 0.01	+ 0.08	
15	"	- 7.5	- 0.1	- 0.21	+ 0.29	+ 0.02	+ 0.07	ε Urs. Min. and 60 R. P. L.
16	"	- 8.2	- 0.1	- 0.18	+ 0.27	+ 0.02	+ 0.08	
17	"	- 9.1	- 0.1	- 0.12	+ 0.27	+ 0.02	+ 0.09	
19	"	- 8.8	- 0.1	- 0.12	+ 0.29	+ 0.03	+ 0.10	
20	"	- 9.0	- 0.1	- 0.19	+ 0.28	+ 0.04	+ 0.11	
22	"	- 9.0	- 0.1	- 0.21	+ 0.29	+ 0.03	+ 0.12	
23	"	- 8.3	- 0.1	- 0.12	+ 0.27	+ 0.03	+ 0.13	ε Urs. Min. and 51 Cephei.
24	"	- 8.4	- 0.1	- 0.06	+ 0.28	+ 0.02	+ 0.12	
25	"	- 8.1	- 0.1	- 0.07	+ 0.28	+ 0.03	+ 0.11	
26	"	- 8.8	- 0.1	- 0.07	+ 0.27	+ 0.03	+ 0.10	
27	"	- 9.0	- 0.1	- 0.05	+ 0.27	+ 0.03	+ 0.10	

Instrumental Corrections adopted in 1881.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Aug. 29	M	- 8.9	- 0.1	- 0.04	+ 0.25	+ 0.03	+ 0.08	3 Urs. Min. and 51 Cephei.
30	"	- 8.6	- 0.1	- 0.06	+ 0.24	+ 0.03	+ 0.07	
31	"	- 8.9	- 0.1	- 0.06	+ 0.24	+ 0.03	+ 0.06	
Sep. 2	"	- 8.1	- 0.1	- 0.03	+ 0.23	+ 0.03	+ 0.05	
3	"	- 8.1	- 0.1	- 0.18	+ 0.23	+ 0.03	+ 0.04	143, & 60 R. P. L. & 1887
5	"	- 7.7	- 0.1	- 0.28	+ 0.25	+ 0.03	+ 0.04	[Radcliffe.
12	"	- 6.2	- 0.1	- 0.24	+ 0.22	+ 0.03	+ 0.04	
13	"	- 5.9	- 0.1	- 0.19	+ 0.21	+ 0.03	+ 0.04	
14	"	- 5.9	- 0.1	- 0.14	+ 0.20	+ 0.03	+ 0.04	143 and 60 R. P. L.
15	"	- 6.0	- 0.1	- 0.13	+ 0.19	+ 0.03	+ 0.04	
16	"	- 5.3	- 0.1	- 0.19	+ 0.20	+ 0.03	+ 0.04	143 R. P. L. & 1887 Radcliffe.
17	"	- 5.6	- 0.1	- 0.22	+ 0.19	+ 0.03	+ 0.02	
20	"	- 6.6	- 0.1	- 0.13	+ 0.23	+ 0.04	- 0.04	
21	"	- 2.3	- 0.1	- 0.12	+ 0.16	+ 0.03	- 0.06	
23	"	- 1.6	- 0.1	- 0.10	+ 0.11	+ 0.04	- 0.10	
24	"	- 2.3	- 0.1	- 0.10	+ 0.07	+ 0.03	- 0.12	143 and 60 R. P. L.
26	"	- 1.4	- 0.1	- 0.05	+ 0.06	+ 0.03	- 0.10	
27	"	- 2.2	- 0.1	- 0.15	+ 0.06	+ 0.03	- 0.08	
28	"	- 1.2	- 0.1	- 0.21	+ 0.06	+ 0.03	- 0.07	
29	"	- 0.5	- 0.1	- 0.14	+ 0.07	+ 0.03	- 0.06	
30	"	- 0.3	- 0.1	- 0.13	+ 0.07	+ 0.03	- 0.05	
Oct. 1	R	- 0.2	0.0	- 0.15	+ 0.06	+ 0.04	- 0.03	
3	"	- 2.9	0.0	- 0.27	+ 0.03	- 0.01	- 0.02	
4	"	- 1.5	0.0	- 0.30	+ 0.06	+ 0.01	- 0.01	
5	"	- 1.5	0.0	- 0.24	+ 0.09	+ 0.02	+ 0.01	
7	"	- 0.6	0.0	- 0.12	+ 0.04	+ 0.02	+ 0.03	2 Urs. Min. and 89 R. P. L.
8	"	- 1.3	0.0	- 0.12	+ 0.06	+ 0.03	+ 0.03	
10	"	- 1.8	0.0	- 0.14	+ 0.08	+ 0.02	+ 0.02	
11	"	- 1.7	0.0	- 0.11	+ 0.09	+ 0.02	+ 0.02	158 and 60 R. P. L.
12	"	- 2.2	0.0	- 0.10	+ 0.06	+ 0.01	- 0.01	
13	"	- 3.1	0.0	- 0.10	+ 0.10	+ 0.02	- 0.05	
14	"	- 2.2	0.0	- 0.06	+ 0.10	+ 0.02	- 0.06	
15	"	- 2.3	0.0	- 0.05	+ 0.07	+ 0.02	- 0.09	143 and 60 R. P. L.
17	"	- 2.5	0.0	- 0.12	+ 0.10	+ 0.02	- 0.02	
18	"	- 2.6	0.0	- 0.15	+ 0.09	+ 0.03	+ 0.02	
19	"	- 1.7	0.0	- 0.10	+ 0.09	+ 0.03	+ 0.05	150 and 60 R. P. L.
20	"	- 1.5	0.0	- 0.03	+ 0.09	+ 0.02	+ 0.06	
21	"	- 1.2	0.0	- 0.21	+ 0.09	+ 0.02	+ 0.06	
22	"	- 1.0	0.0	- 0.30	+ 0.10	+ 0.02	+ 0.07	150 and 60 R. P. L.
24	"	- 0.9	0.0	- 0.20	+ 0.03	+ 0.01	+ 0.07	
25	"	- 1.6	0.0	- 0.20	+ 0.05	0.00	+ 0.08	
26	"	- 1.3	0.0	- 0.20	+ 0.03	+ 0.01	+ 0.03	2 Urs. Min. and 70 R. P. L.
27	"	- 1.4	0.0	- 0.21	+ 0.03	+ 0.01	+ 0.03	
28	"	- 1.3	0.0	- 0.23	+ 0.07	+ 0.01	+ 0.09	
29	"	- 1.4	0.0	- 0.24	+ 0.03	+ 0.01	+ 0.09	
31	"	- 0.4	0.0	- 0.26	+ 0.03	+ 0.02	+ 0.09	150 and 72 R. P. L.
Nov. 2	M	- 9.4	- 0.1	- 0.23	+ 0.07	+ 0.04	+ 0.03	
5	"	- 6.2	- 0.1	- 0.14	+ 0.06	+ 0.04	+ 0.03	
7	"	- 4.6	- 0.1	- 0.18	+ 0.04	+ 0.03	+ 0.01	
9	"	- 3.1	- 0.1	- 0.34	- 0.01	+ 0.03	- 0.01	158 and 89 R. P. L.
10	"	- 1.8	- 0.1	- 0.42	- 0.03	+ 0.03	- 0.02	
14	"	+ 0.3	- 0.1	- 0.36	- 0.23	+ 0.09	- 0.05	
16	"	+ 1.4	- 0.1	- 0.23	- 0.03	+ 0.11	- 0.06	158 and 89 R. P. L.
17	"	+ 1.0	- 0.1	- 0.15	- 0.01	+ 0.12	- 0.04	
18	"	+ 2.3	- 0.1	- 0.03	- 0.07	+ 0.05	- 0.02	
21	"	- 0.1	- 0.1	- 0.34	- 0.09	+ 0.03	+ 0.05	

Instrumental Corrections adopted in 1881.

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Nov. 23	M	- 1.3	- 0.1	- 0.36	- 0.08	+ 0.04	+ 0.10	158 and 89 R. P. L.
24	"	- 0.1	- 0.1	- 0.29	- 0.10	+ 0.04	+ 0.10	
25	"	- 0.3	- 0.1	- 0.29	- 0.10	+ 0.03	+ 0.11	
26	"	- 0.3	- 0.1	- 0.33	- 0.10	+ 0.03	+ 0.11	
30	"	- 0.3	- 0.1	- 0.27	- 0.06	+ 0.03	+ 0.12	
Dec. 1	R	- 1.0	0.0	- 0.28	- 0.01	+ 0.02	+ 0.12	14 and 99 R. P. L.
2	"	- 2.3	0.0	- 0.31	- 0.03	+ 0.02	+ 0.13	
5	"	- 1.8	0.0	- 0.41	- 0.01	+ 0.03	+ 0.14	
6	"	- 1.8	0.0	- 0.43	- 0.01	+ 0.03	+ 0.14	
7	"	- 2.2	0.0	- 0.38	- 0.02	+ 0.03	+ 0.14	
12	"	- 0.8	0.0	- 0.28	+ 0.08	+ 0.05	+ 0.16	
14	"	- 1.6	0.0	- 0.25	+ 0.09	+ 0.04	+ 0.17	
15	"	- 1.6	0.0	- 0.27	+ 0.10	+ 0.03	+ 0.17	
16	"	- 1.4	0.0	- 0.29	+ 0.10	+ 0.06	+ 0.17	
17	"	- 2.3	0.0	- 0.32	+ 0.09	+ 0.05	+ 0.18	
21	"	- 2.1	0.0	- 0.32	+ 0.08	+ 0.05	+ 0.20	
22	"	- 1.8	0.0	- 0.37	+ 0.05	+ 0.06	+ 0.21	
23	"	- 2.1	0.0	- 0.39	+ 0.05	+ 0.06	+ 0.21	14 and 99 R. P. L.
24	"	- 2.2	0.0	- 0.40	+ 0.05	+ 0.06	+ 0.20	
26	"	- 1.8	0.0	- 0.50	+ 0.03	+ 0.03	+ 0.19	
27	"	- 1.5	0.0	- 0.50	+ 0.06	+ 0.03	+ 0.18	

Instrumental Corrections adopted in 1882.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
Jan. 3	M	+ 2.0	0.0	- 0.25	+ 0.09	+ 0.07	+ 0.11	33 and 114 R. P. L.
4	"	+ 1.9	0.0	- 0.28	+ 0.10	+ 0.07	+ 0.10	
5	"	+ 2.1	0.0	- 0.34	+ 0.09	+ 0.06	+ 0.09	
6	"	+ 1.2	0.0	- 0.32	+ 0.14	+ 0.08	+ 0.09	
7	"	+ 1.1	0.0	- 0.36	+ 0.14	+ 0.04	+ 0.08	
9	"	+ 1.6	0.0	- 0.47	+ 0.18	+ 0.06	+ 0.06	41 and 108 R. P. L.
10	"	- 0.9	0.0	- 0.46	+ 0.15	+ 0.05	+ 0.06	
11	"	- 1.0	0.0	- 0.40	+ 0.17	+ 0.07	+ 0.05	
12	"	- 0.4	0.0	- 0.36	+ 0.13	+ 0.05	+ 0.05	
13	R	- 2.2	0.0	- 0.34	+ 0.09	+ 0.06	+ 0.05	
14	M	- 2.5	0.0	- 0.34	+ 0.07	+ 0.03	+ 0.04	41 and 108 R. P. L.
16	"	- 3.0	0.0	- 0.50	+ 0.10	+ 0.03	+ 0.03	
17	"	- 2.9	0.0	- 0.43	+ 0.12	+ 0.03	+ 0.03	
18	"	- 2.5	0.0	- 0.38	+ 0.11	+ 0.03	+ 0.02	
19	"	- 3.9	0.0	- 0.43	+ 0.11	+ 0.03	+ 0.00	
20	"	- 3.4	0.0	- 0.34	+ 0.10	+ 0.04	+ 0.01	41 R. P. L. and ϵ Urs. Min.
21	"	- 2.6	0.0	- 0.38	+ 0.10	+ 0.03	+ 0.03	
23	"	- 2.6	0.0	- 0.45	+ 0.13	+ 0.04	+ 0.05	
24	"	- 4.0	0.0	- 0.34	+ 0.11	+ 0.03	+ 0.05	
25	"	- 5.0	0.0	- 0.39	+ 0.13	+ 0.04	+ 0.05	
26	"	- 5.3	0.0	- 0.44	+ 0.12	+ 0.05	+ 0.05	41 R. P. L. and ϵ Urs. Min.
27	"	- 4.9	0.0	- 0.42	+ 0.12	+ 0.04	+ 0.05	
28	"	- 5.3	0.0	- 0.40	+ 0.10	+ 0.04	+ 0.05	
30	"	- 6.6	0.0	- 0.50	+ 0.10	+ 0.04	+ 0.10	
31	"	- 7.0	0.0	- 0.43	+ 0.15	+ 0.05	+ 0.13	
Feb. 1	R	- 7.5	- 0.1	- 0.25	+ 0.19	+ 0.04	+ 0.15	41 R. P. L. and ϵ Urs. Min.
2	"	- 6.8	- 0.1	- 0.28	+ 0.14	+ 0.06	+ 0.13	
3	"	- 7.9	- 0.1	- 0.33	+ 0.16	+ 0.07	+ 0.15	
4	"	- 8.0	- 0.1	- 0.29	+ 0.14	+ 0.04	+ 0.13	
6	"	- 8.4	- 0.1	- 0.36	+ 0.08	+ 0.04	+ 0.11	
7	"	- 8.3	- 0.1	- 0.33	+ 0.15	+ 0.06	+ 0.09	41 R. P. L. and 24 Urs. Min.
8	"	- 8.0	- 0.1	- 0.25	+ 0.14	+ 0.06	+ 0.08	
9	"	- 9.4	- 0.1	- 0.30	+ 0.15	+ 0.07	+ 0.07	
10	"	- 8.7	- 0.1	- 0.32	+ 0.16	+ 0.05	+ 0.08	
11	"	- 9.1	- 0.1	- 0.41	+ 0.16	+ 0.05	+ 0.09	
13	"	- 8.7	- 0.1	- 0.47	+ 0.15	+ 0.04	+ 0.11	70 and 153 R. P. L.
14	"	- 9.1	- 0.1	- 0.44	+ 0.19	+ 0.06	+ 0.13	
15	"	- 8.7	- 0.1	- 0.43	+ 0.20	+ 0.06	+ 0.16	
16	"	- 8.8	- 0.1	- 0.40	+ 0.18	+ 0.05	+ 0.13	
17	"	- 8.6	- 0.1	- 0.42	+ 0.22	+ 0.06	+ 0.11	
18	"	- 7.7	- 0.1	- 0.42	+ 0.21	+ 0.02	+ 0.09	70 R. P. L. & 2 Urs. Min.
20	"	- 7.8	- 0.1	- 0.37	+ 0.25	+ 0.07	+ 0.08	
21	"	- 8.8	- 0.1	- 0.32	+ 0.25	+ 0.06	+ 0.07	
22	"	- 9.0	- 0.1	- 0.33	+ 0.25	+ 0.04	+ 0.07	
23	"	- 9.3	- 0.1	- 0.36	+ 0.23	+ 0.02	+ 0.07	
24	"	- 9.4	- 0.1	- 0.36	+ 0.24	+ 0.04	+ 0.06	89 and 158 R. P. L.
25	"	- 9.2	- 0.1	- 0.33	+ 0.26	+ 0.05	+ 0.06	
27	"	- 9.1	- 0.1	- 0.35	+ 0.26	+ 0.07	+ 0.03	
28	"	- 9.5	- 0.1	- 0.22	+ 0.24	+ 0.05	+ 0.03	
Mar. 1	M	- 7.7	0.0	- 0.19	+ 0.27	+ 0.04	+ 0.03	72 and 158 R. P. L.
2	"	- 8.8	0.0	- 0.36	+ 0.26	+ 0.03	+ 0.02	
3	"	- 10.4	0.0	- 0.41	+ 0.21	+ 0.03	+ 0.02	
4	"	- 9.4	0.0	- 0.42	+ 0.22	+ 0.03	+ 0.02	
6	"	- 0.8	0.0	- 0.46	+ 0.25	+ 0.03	+ 0.04	
7	"	- 0.0	0.0	- 0.29	+ 0.25	+ 0.04	+ 0.02	
8	"	- 1.6	0.0	- 0.18	+ 0.26	+ 0.04	+ 0.03	
9	"	- 1.6	0.0	- 0.32	+ 0.28	+ 0.04	+ 0.04	

Instrumental Corrections adopted in 1882.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Mar. 10	M	— 0.7	0.0	— 0.33	+ 0.27	+ 0.04	+ 0.05	
11	"	— 0.1	0.0	— 0.31	+ 0.27	+ 0.04	+ 0.06	
13	"	— 1.7	0.0	— 0.14	+ 0.29	+ 0.05	+ 0.08	
14	"	— 0.8	0.0	— 0.17	+ 0.27	+ 0.03	+ 0.09	
15	"	— 2.8	0.0	— 0.28	+ 0.29	+ 0.04	+ 0.10	79 and 158 R. P. L.
16	"	— 1.6	0.0	— 0.23	+ 0.28	+ 0.03	+ 0.04	72 R.P.L. and γ Urs. Maj.
17	"	— 0.5	0.0	— 0.25	+ 0.30	+ 0.04	+ 0.08	55, 69, 131 R. P. L., 24 Ursae Minoris and 51 Cephei.
18	"	— 1.3	0.0	— 0.28	+ 0.31	+ 0.04	+ 0.07	48, 55, 62, 69, 72, 131, 138 R. P. L. 24 Urs. Min., and 76 Draconis.
21	"	+ 0.3	0.0	— 0.25	+ 0.34	+ 0.04	+ 0.05	80, 153, and 149 R. P. L.
22	"	— 0.6	0.0	— 0.30	+ 0.36	+ 0.03	+ 0.11	53, 55, 62, 131, & 153 R.P.L.
23	"	— 0.6	0.0	— 0.41	+ 0.37	+ 0.03	+ 0.04	53, 55, 62, 80, 131, & 153 R. P. L.
24	"	— 0.9	0.0	— 0.31	+ 0.38	+ 0.04	+ 0.18	80, 149 R. P. L. and 51 Cephei.
25	"	0.0	0.0	— 0.26	+ 0.39	+ 0.04	+ 0.15	48, 53, 55, 62, 79, 131, 153 R. P. L. and 51 Cephei.
27	"	0.0	0.0	— 0.42	+ 0.39	+ 0.03	+ 0.13	62, 143 R. P. L. and 51 Cephei.
28	"	0.0	0.0	— 0.36	+ 0.42	+ 0.04	+ 0.02	80, 149, 153 R. P. L. and 51 Cephei.
29	"	+ 1.2	0.0	— 0.32	+ 0.41	+ 0.04	+ 0.05	48, 55, 62, 79, 81, 138, 149, 152 R. P. L. and 51 Cephei.
30	"	0.0	0.0	— 0.36	+ 0.38	+ 0.04	+ 0.07	48, 55, 62, 80, 81, 138, 149, 153, 158 R. P. L. and 51 Cephei.
31	"	+ 0.2	0.0	— 0.33	+ 0.39	+ 0.04	+ 0.09	48, 55, 62, 80, 81, 138, 149, 152, and 158 R. P. L.
Apl. 1	R	+ 0.2	0.0	— 0.27	+ 0.43	+ 0.02	+ 0.08	48, 55, 62, 80, 81, 133, 138, 149, 152, 158, 162, R.P.L. and 76 Draconis.
3	"	— 0.2	0.0	— 0.32	+ 0.45	+ 0.03	+ 0.08	62, 80, 81, 89, 149, 152, 155, & 162 R. P. L.
4	"	— 1.9	0.0	— 0.37	+ 0.43	+ 0.03	+ 0.06	48, 53, 80, 81, 82, 89, 133, 138, 143, 149, 152, & 162 R.P.L.
5	"	— 2.4	0.0	— 0.36	+ 0.43	+ 0.04	+ 0.08	48, 53, 55, 81, 89, 138, 149, 152, 155, 162 R.P. L. and 76 Draconis.
6	"	— 1.1	0.0	— 0.31	+ 0.43	+ 0.04	+ 0.10	48, 53, 81, 82, 89, 133, 138, 162 R. P. L. and 76 Dra- conis.
7	"	— 1.1	0.0	— 0.32	+ 0.44	+ 0.03	+ 0.15	48, 53, 81, 82, 133, 138, 143, 152, & 162 R. P. L.
8	"	— 2.1	0.0	— 0.35	+ 0.45	+ 0.02	+ 0.09	53, 80, 81, 138, 143, 152, 155, 162 R. P. L. and 76 Draconis.
10	"	0.0	0.0	— 0.36	+ 0.45	+ 0.04	+ 0.13	53, 79, 143, 152, 155, and 162 R. P. L.
11	"	— 0.2	0.0	— 0.35	+ 0.43	+ 0.03	+ 0.10	53, 79, 89, 143, 152, 155, 162, and 4 R. P. L.
15	"	+ 0.6	0.0	— 0.34	+ 0.48	+ 0.04	+ 0.19	82, 97, 98, 143, 155, 162, and 4 R. P. L.
17	"	— 0.4	0.0	— 0.37	+ 0.46	+ 0.04	+ 0.17	82, 89, 97, 99, 155, & 4 R.P.L.
18	"	+ 0.2	0.0	— 0.40	+ 0.49	+ 0.05	+ 0.16	82, 89, 97, 98, 155, 4, and 14 R. P. L.
19	"	+ 0.4	0.0	— 0.32	+ 0.53	+ 0.08	+ 0.24	82, 97, 98, 155, & 14 R. P. L.
20	"	— 0.1	0.0	— 0.18	+ 0.48	+ 0.05	+ 0.19	

Instrumental Corrections adopted in 1882.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining stars.
		"	"	s	s	s	s	
Apl. 21	R	- 0.1	0.0	- 0.20	+ 0.49	+ 0.06	+ 0.14	79, 82, 98, 155, & 14 R. P. L.
22	"	- 0.7	0.0	- 0.26	+ 0.49	+ 0.07	+ 0.20	79, 82, 97, 14 R. P. L. and 2 Ursæ Minoris.
27	"	+ 1.4	0.0	- 0.28	+ 0.54	+ 0.07	+ 0.25	82, 98, 4 R. P. L. and 2 Ursæ Minoris.
28	"	+ 1.3	0.0	- 0.21	+ 0.54	+ 0.08	+ 0.31	97, 98, 100, 4 R. P. L. and 2 Ursæ Minoris.
29	"	+ 0.6	0.0	- 0.13	+ 0.46	0.00	+ 0.17	97, 98, and 4 R. P. L.
May 1	M	+ 1.3	0.0	- 0.22	+ 0.52	+ 0.04	+ 0.19	97, 100, 103, 108, 110, 111, 114, 4, & 14 R. P. L.
2	"	+ 1.1	0.0	- 0.25	+ 0.50	+ 0.03	+ 0.17	97, 100, 110, 114, 4, 14, 33, 35 R. P. L. and Polaris.
3	"	+ 0.9	0.0	- 0.21	+ 0.52	+ 0.03	+ 0.17	97, 101, 108, 114, 14, 33 and 35 R. P. L.
4	"	+ 1.3	0.0	- 0.24	+ 0.53	+ 0.04	+ 0.11	100, 108, 110, 114, 115, 4, 18, and 35 R. P. L.
5	"	+ 1.3	0.0	- 0.33	+ 0.53	+ 0.04	+ 0.12	100, 108, 115, 18, 33, and 35 R. P. L.
6	"	+ 1.6	0.0	- 0.30	+ 0.57	+ 0.04	+ 0.18	100, 110, 111, 115, 18 and 35 R. P. L.
8	"	+ 1.9	0.0	- 0.29	+ 0.55	+ 0.04	+ 0.20	100, 117, 18 and 35 R. P. L.
9	"	+ 1.9	0.0	- 0.28	+ 0.55	+ 0.03	+ 0.22	100, 110, 117, 35 R. P. L. and Polaris.
10	"	+ 3.2	0.0	- 0.22	+ 0.55	+ 0.03	+ 0.23	110 and 18 R. P. L.
11	"	+ 1.8	0.0	- 0.15	+ 0.54	+ 0.04	+ 0.20	
12	"	+ 1.4	0.0	- 0.08	+ 0.54	+ 0.04	+ 0.17	100 and 18 R. P. L.
13	"	+ 2.0	0.0	- 0.08	+ 0.54	+ 0.04	+ 0.17	
15	"	+ 2.2	0.0	- 0.17	+ 0.53	+ 0.03	+ 0.17	100 and 18 R. P. L.
16	"	+ 2.3	0.0	- 0.29	+ 0.54	+ 0.04	+ 0.20	
17	"	+ 2.8	0.0	- 0.27	+ 0.53	+ 0.04	+ 0.22	101 R. P. L. and ε Serpentis.
18	"	+ 2.7	0.0	- 0.13	+ 0.53	+ 0.04	+ 0.22	
20	"	+ 2.6	0.0	- 0.19	+ 0.52	+ 0.04	+ 0.22	
22	"	+ 2.7	0.0	- 0.24	+ 0.56	+ 0.04	+ 0.22	
23	"	+ 3.3	0.0	- 0.24	+ 0.57	+ 0.04	+ 0.27	101, 110, R. P. L. and Polaris.
24	"	+ 3.2	0.0	- 0.22	+ 0.56	+ 0.03	+ 0.27	101, 110, 26, & 35 R. P. L.
25	"	+ 2.9	0.0	- 0.17	+ 0.59	+ 0.04	+ 0.27	117, 35 R. P. L. and ε Ursæ Minoris.
26	"	+ 3.1	0.0	- 0.15	+ 0.58	+ 0.03	+ 0.34	101, 110, 116, & 26 R. P. L.
27	"	+ 2.8	0.0	- 0.19	+ 0.58	+ 0.04	+ 0.35	103, 117, & 26 R. P. L.
29	"	+ 3.2	0.0	- 0.19	+ 0.60	+ 0.04	+ 0.41	103, 113, & 26 R. P. L.
30	"	+ 3.0	0.0	- 0.14	+ 0.59	+ 0.04	+ 0.37	101, 116, & 26 R. P. L.
31	"	+ 2.5	0.0	0.00	+ 0.57	+ 0.04	+ 0.35	
June 5	R	+ 2.4	+ 0.1	+ 0.15	+ 0.69	+ 0.10	+ 0.32	
6	"	+ 3.2	+ 0.1	+ 0.14	+ 0.60	+ 0.04	+ 0.32	
8	"	+ 3.3	+ 0.1	+ 0.21	+ 0.64	+ 0.05	+ 0.31	
10	"	+ 3.1	+ 0.1	+ 0.25	+ 0.62	+ 0.04	+ 0.30	
13	"	+ 1.9	+ 0.1	+ 0.24	+ 0.63	+ 0.01	+ 0.29	
14	"	+ 2.0	+ 0.1	+ 0.25	+ 0.63	+ 0.04	+ 0.28	
15	"	+ 2.2	+ 0.1	+ 0.20	+ 0.64	+ 0.05	+ 0.23	117 and 37 R. P. L.
16	"	+ 2.2	+ 0.1	+ 0.12	+ 0.65	+ 0.04	+ 0.32	
17	"	+ 2.2	+ 0.1	+ 0.13	+ 0.66	+ 0.05	+ 0.36	
19	"	+ 2.1	+ 0.1	+ 0.20	+ 0.66	+ 0.04	+ 0.45	
20	"	+ 2.1	+ 0.1	+ 0.13	+ 0.66	+ 0.04	+ 0.49	118, 26, & 37 R. P. L.
21	"	+ 2.2	+ 0.1	+ 0.04	+ 0.64	+ 0.06	+ 0.56	101 and 26 R. P. L.
22	"	+ 2.2	+ 0.1	+ 0.03	+ 0.66	+ 0.03	+ 0.59	101 and 26 R. P. L.

Instrumental Corrections adopted in 1882.

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
June 23	R	+ 4.1	+ 0.1	0.00	+ 0.57	+ 0.04	+ 0.55	δ Urs. Min. and 39 R.P.L. 117 and 37 R. P. L. 117, 120, 37, & 39 R. P. L.
24	"	+ 4.1	+ 0.1	- 0.02	+ 0.63	+ 0.04	+ 0.51	
26	"	+ 3.2	+ 0.1	- 0.13	+ 0.62	+ 0.04	+ 0.44	
27	"	+ 2.9	+ 0.1	- 0.05	+ 0.57	+ 0.02	+ 0.33	
28	"	+ 3.4	+ 0.1	+ 0.06	+ 0.57	+ 0.04	+ 0.44	
29	"	+ 2.8	+ 0.1	+ 0.06	+ 0.60	+ 0.05	+ 0.42	
July 12	"	+ 3.7	0.0	+ 0.21	+ 0.45	+ 0.04	+ 0.41	118 and 37 R. P. L. 120 and 40 R. P. L.
17	"	+ 2.8	0.0	+ 0.16	+ 0.54	+ 0.06	+ 0.41	
18	"	+ 3.0	0.0	+ 0.23	+ 0.53	+ 0.04	+ 0.41	
19	"	+ 3.2	0.0	+ 0.39	+ 0.54	+ 0.03	+ 0.41	
20	"	+ 3.3	0.0	+ 0.41	+ 0.55	+ 0.04	+ 0.44	
21	"	+ 3.1	0.0	+ 0.48	+ 0.54	+ 0.04	+ 0.41	
22	"	+ 3.5	0.0	+ 0.48	+ 0.62	+ 0.06	+ 0.44	
24	"	+ 2.2	0.0	+ 0.34	+ 0.46	+ 0.05	+ 0.41	
26	"	+ 2.7	0.0	+ 0.29	+ 0.47	+ 0.05	+ 0.51	
27	"	+ 2.7	0.0	+ 0.27	+ 0.49	+ 0.04	+ 0.51	
29	"	+ 2.0	0.0	+ 0.34	+ 0.53	+ 0.06	+ 0.52	
Aug. 3	M	+ 2.1	- 0.1	+ 0.46	+ 0.46	+ 0.02	+ 0.53	118, 37 R.P.L. & 51 Cephei.
8	"	+ 1.4	- 0.1	+ 0.54	+ 0.49	+ 0.04	+ 0.53	
9	"	+ 3.1	- 0.1	+ 0.47	+ 0.47	+ 0.03	+ 0.54	
11	"	+ 1.9	- 0.1	+ 0.33	+ 0.48	+ 0.08	+ 0.54	
14	"	+ 3.6	- 0.1	+ 0.45	+ 0.47	+ 0.07	+ 0.49	
15	"	+ 2.3	- 0.1	+ 0.52	+ 0.44	+ 0.03	+ 0.46	ε Urs. Min. and 37 R.P.L. 118, 37 R.P.L., δ Ursæ Min- oris & 24 Ursæ Minoris.
17	"	+ 2.3	- 0.1	+ 0.59	+ 0.45	+ 0.03	+ 0.45	
18	"	+ 2.7	- 0.1	+ 0.48	+ 0.45	+ 0.04	+ 0.45	
19	"	+ 3.0	- 0.1	+ 0.41	+ 0.43	+ 0.04	+ 0.48	134, 45, & 41 R. P. L. 134 R. P. L. & 51 Cephei. 134, 40, & 49 R. P. L.
21	"	+ 2.9	- 0.1	+ 0.47	+ 0.44	+ 0.04	+ 0.53	
22	"	+ 2.9	- 0.1	+ 0.52	+ 0.40	+ 0.04	+ 0.60	
23	"	+ 2.9	- 0.1	+ 0.50	+ 0.40	+ 0.04	+ 0.59	134, 138 49, & 60 R. P. L.
24	"	+ 2.8	- 0.1	+ 0.46	+ 0.39	+ 0.03	+ 0.58	
28	"	+ 2.0	- 0.1	+ 0.42	+ 0.39	+ 0.03	+ 0.54	
29	"	+ 3.3	- 0.1	+ 0.45	+ 0.39	+ 0.03	+ 0.53	120, 40 R.P.L. & 51 Cephei. δ Urs. Min., 40, & 41 R.P.L.
30	"	+ 4.1	- 0.1	+ 0.47	+ 0.37	+ 0.03	+ 0.53	
31	"	+ 3.4	- 0.1	+ 0.42	+ 0.37	+ 0.04	+ 0.49	
Sept. 2	R	+ 2.4	0.0	- 0.46	+ 0.37	+ 0.03	+ 0.50	ε Delphini and 53 R. P. L. 76 Draconis and 53 R.P.L. 133, 150, 48, & 53 R. P. L. 138 and 53 R. P. L.
9	M	+ 3.1	0.0	- 0.66	+ 0.35	+ 0.04	+ 0.54	
11	R	+ 3.3	0.0	- 0.60	+ 0.36	+ 0.04	+ 0.56	
13	"	+ 2.4	0.0	- 0.77	+ 0.34	+ 0.04	+ 0.57	
15	"	+ 2.4	0.0	- 0.65	+ 0.38	+ 0.03	+ 0.58	
16	"	+ 2.8	0.0	- 0.62	+ 0.36	+ 0.05	+ 0.58	
18	"	+ 2.5	0.0	- 0.87	+ 0.32	+ 0.04	+ 0.57	
19	"	+ 2.6	0.0	- 0.90	+ 0.35	+ 0.05	+ 0.58	
20	"	+ 2.5	0.0	- 0.87	+ 0.38	+ 0.03	+ 0.59	
21	"	+ 2.4	0.0	- 0.76	+ 0.35	+ 0.05	+ 0.59	
22	"	+ 1.6	0.0	- 0.76	+ 0.31	+ 0.03	+ 0.56	
23	"	+ 1.6	0.0	- 0.81	+ 0.33	+ 0.04	+ 0.53	
25	"	+ 2.3	0.0	- 0.79	+ 0.31	+ 0.03	+ 0.53	
26	"	+ 2.6	0.0	- 0.79	+ 0.31	+ 0.03	+ 0.53	
Oct. 4	M	+ 2.3	0.0	- 0.56	+ 0.28	+ 0.03	+ 0.54	151 and 69 R. P. L. 133, 152, 40, 53, & 60 R.P.L. 138 and 60 R. P. L. 152, 55, 60, & 62 R. P. L. 151, 152, 162, 60, 80, 81 R.P.L.
5	"	+ 1.8	0.0	- 0.59	+ 0.26	+ 0.03	+ 0.52	
6	"	+ 2.0	0.0	- 0.62	+ 0.27	+ 0.03	+ 0.51	
7	"	+ 1.0	0.0	- 0.63	+ 0.25	+ 0.02	+ 0.54	
13	"	+ 3.3	0.0	- 0.60	+ 0.23	+ 0.03	+ 0.48	
16	"	+ 7.8	0.0	- 0.34	+ 0.17	+ 0.03	+ 0.42	

Instrumental Corrections adopted in 1882.

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclination.	Collimation.	Meridian	Determining Stars.
		"	"	s	s	s	s	
Oct. 17	M	+ 8.4	0.0	- 0.40	+ 0.15	+ 0.08	+ 0.45	α Gnuis and 155 R. P. L.
18	"	+ 7.8	0.0	- 0.55	+ 0.12	+ 0.04	+ 0.43	149, 151, 152, 155, 162, 55, and 80 R. P. L.
20	"	+ 8.0	0.0	- 0.59	+ 0.12	+ 0.04	+ 0.48	152, 155, 55, 62, & 69 R.P.L.
21	"	+ 8.7	0.0	- 0.59	+ 0.10	+ 0.04	+ 0.41	
24	"	+ 10.7	0.0	- 0.64	+ 0.08	+ 0.04	+ 0.37	138, 149, 152, 155, 162, 55, 69, & 79 R. P. L.
25	"	+ 10.3	0.0	- 0.62	+ 0.06	+ 0.04	+ 0.40	138, 149, 152, 162, 55, 69, 80, 82, & 90 R. P. L.
26	"	+ 11.1	0.0	- 0.59	+ 0.06	+ 0.04	+ 0.40	
Nov. 1	R	+ 10.4	0.0	- 0.55	+ 0.09	+ 0.05	+ 0.38	152, 155, 81, & 62 R. P. L.
2	"	+ 10.1	0.0	- 0.51	+ 0.07	+ 0.03	+ 0.41	
3	"	+ 9.7	0.0	- 0.52	+ 0.07	+ 0.03	+ 0.44	152, 162, 69, 81, & 90 R.P.L.
6	"	+ 10.7	0.0	- 0.54	+ 0.10	+ 0.04	+ 0.44	149, 152, 4, 69, 87, 90 R.P.L.
7	"	+ 9.7	0.0	- 0.60	+ 0.11	+ 0.04	+ 0.41	149, 4, 69, 80, & 81 R. P. L.
8	"	+ 9.9	0.0	- 0.56	+ 0.09	+ 0.04	+ 0.39	149, 155, 4, 80, & 82 R. P. L.
9	"	+ 10.3	0.0	- 0.57	+ 0.09	+ 0.03	+ 0.42	149, 155, & 80 R. P. L.
10	"	+ 10.0	0.0	- 0.61	+ 0.12	+ 0.04	+ 0.42	155, 18, 62, & 98 R. P. L.
11	"	+ 9.9	0.0	- 0.58	+ 0.12	+ 0.03	+ 0.46	149, 80, & 99 R. P. L.
13	"	+ 9.7	0.0	- 0.64	+ 0.09	+ 0.03	+ 0.43	155 and 80 R. P. L.
14	"	+ 8.8	0.0	- 0.66	+ 0.10	+ 0.04	+ 0.43	4 and 99 R. P. L.
17	"	+ 11.6	0.0	- 0.50	+ 0.02	+ 0.03	+ 0.29	155 and 80 R. P. L.
18	"	+ 13.7	0.0	- 0.44	+ 0.04	+ 0.05	+ 0.30	155 and 80 R. P. L.
Dec. 1	M	+ 7.5	- 0.1	- 0.35	+ 0.24	+ 0.03	+ 0.39	162 & 81 R. P. L.
2	"	+ 7.9	- 0.1	- 0.18	+ 0.34	+ 0.05	+ 0.38	4, 90, & 82 R. P. L.
4	"	+ 6.2	- 0.1	+ 0.17	+ 0.32	+ 0.04	+ 0.33	4, 14, 26, 81, 90, 93, 101, and 108 R. P. L.
5	"	+ 5.0	- 0.1	+ 0.21	+ 0.32	+ 0.04	+ 0.38	4, 14, 18, 26, 82, 89, 90, 98, and 108 R. P. L.
7	"	+ 5.4	- 0.1	+ 0.36	+ 0.26	+ 0.03	+ 0.35	4, 14, 18, 26, 81, 90, 99, 108, and 114 R. P. L.
8	"	+ 5.7	- 0.1	+ 0.38	+ 0.27	+ 0.04	+ 0.37	4, 14, 18, 81, 103, 110, and 114 R. P. L.
11	R	+ 0.3	- 0.1	+ 0.20	+ 0.21	+ 0.04	+ 0.33	4, 33, 81, & 110 R. P. L.
12	"	- 0.9	- 0.1	+ 0.25	+ 0.24	+ 0.04	+ 0.38	14, 34, 81, 89, 90, 97, 110, and 111 R. P. L.
13	"	- 1.2	- 0.1	+ 0.42	+ 0.26	+ 0.03	+ 0.34	162, 34, 89, 90, 97, 98, 110 R.P.L. & 2 Ursæ Minoris.
14	M	- 0.8	- 0.1	+ 0.42	+ 0.25	+ 0.04	+ 0.41	14, 18, 34, 82, 89, 93, 97, 108, & 110 R. P. L.
15	"	- 0.6	- 0.1	+ 0.31	+ 0.24	+ 0.04	+ 0.33	34, 89, 93, 97, & 110 R.P.L.
16	"	- 1.1	- 0.1	+ 0.31	+ 0.25	+ 0.04	+ 0.33	34, 162, 89, 93, 101, and 110 R. P. L.
18	"	- 0.9	- 0.1	+ 0.42	+ 0.25	+ 0.03	+ 0.29	162, 34, 35, & 89 R.P.L.
19	"	- 0.9	- 0.1	+ 0.35	+ 0.24	+ 0.04	+ 0.34	162, 18, 89, 97, 98, and 115 R. P. L.
20	"	- 1.7	- 0.1	+ 0.29	+ 0.25	+ 0.04	+ 0.36	10, 18, 34, 35, 89, 97, 103, and 115 R.P.L.
21	"	- 2.6	- 0.1	+ 0.44	+ 0.29	+ 0.04	+ 0.36	
22	"	- 2.5	- 0.1	+ 0.43	+ 0.30	+ 0.04	+ 0.36	10, 35, 100, & 115 R.P.L.
23	"	- 3.5	- 0.1	+ 0.42	+ 0.29	+ 0.04	+ 0.33	34 R.P.L. and 3 Urs. Min.
23	"	- 2.8	- 0.1	+ 0.46	+ 0.31	+ 0.03	+ 0.33	
29	"	- 3.0	- 0.1	+ 0.31	+ 0.33	+ 0.04	+ 0.32	
30	R	- 4.3	- 0.1	+ 0.20	+ 0.39	+ 0.06	+ 0.32	14, 35, and 98 R. P. L.

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1881.			1880.			1881.			1882.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
α Andromedæ ...	0	2	61 34	3	- 0.02	+ 0.3	8	- 0.04	- 0.5	8	0.00	- 0.7
γ Pegasi (<i>Algenib</i>) ...	0	7	75 29	7	- 0.03	- 2.2	1	- 0.08	- 1.2	4	+ 0.01	- 0.9
ϵ Ceti ...	0	13	99 29	9	+ 0.01	- 1.9	9	+ 0.02	- 0.1	7	+ 0.04	- 0.7
12 Ceti ...	0	24	94 37	8	0.00	+ 0.4	2	+ 0.03	+ 2.0	...	...	...
β Ceti ...	0	38	108 38	9	- 0.06	- 0.5	3	- 0.09	+ 1.0	...	...	...
δ Piscium ...	0	43	83 4	9	+ 0.02	- 2.2	12	+ 0.01	- 1.5	7	+ 0.01	- 0.1
ϵ Piscium ...	0	57	82 45	10	- 0.05	- 1.4	3	- 0.08	- 0.5	...	...	...
β Andromedæ ...	1	3	55 1	...	...	...	3	- 0.04	- 0.3	9	- 0.13	+ 1.7
α Urs. Min. (<i>Polaris</i>)..	1	15	1 20	1	+ 1.86	+ 0.1	1	- 0.11	+ 0.7	3	+ 0.50	- 0.5
θ Ceti... ..	1	18	98 48	5	- 0.02	- 1.1	3	+ 0.01	+ 0.7	4	+ 0.06	+ 1.5
η Piscium ...	1	25	75 16	9	0.00	+ 0.1	2	- 0.06	- 1.1	3	- 0.05	+ 0.9
α Eridani (<i>Achernar</i>) ..	1	33	147 51	...	...	...	...	...	...	5	+ 0.02	+ 3.0
ν Piscium ...	1	35	85 7	10	+ 0.07	- 1.6	4	+ 0.07	- 2.1	...	...	...
σ Piscium ...	1	39	81 27	4	+ 0.04	+ 0.6	5	+ 0.00	+ 0.2	19	+ 0.01	+ 0.5
β Arietis ...	1	48	69 46	7	- 0.01	+ 0.1	4	+ 0.03	+ 0.1	...	...	...
α Arietis ...	2	0	67 6	4	- 0.06	- 0.4	...	...	...	2	+ 0.03	- 0.5
67 Ceti ...	2	11	96 58	13	+ 0.01	- 2.1	7	+ 0.05	- 1.5	13	+ 0.03	0.0
ξ^3 Ceti ...	2	22	82 4	2	+ 0.03	- 1.5	8	- 0.02	- 1.1	6	+ 0.07	+ 0.7
γ^2 Ceti ...	2	37	87 16	3	- 0.02	- 2.8	11	+ 0.01	- 1.5	9	+ 0.03	- 0.3
σ Arietis ...	2	45	75 25	...	...	...	12	- 0.04	- 0.2	28	+ 0.03	+ 1.0
α Ceti ...	2	56	86 23	1	- 0.07	- 1.6	11	+ 0.02	- 0.8	4	+ 0.06	+ 1.5
δ Arietis ...	3	5	70 43	5	- 0.02	- 1.4	7	0.00	- 1.7	1	- 0.06	- 2.4
α Persei ...	3	16	40 34	...	...	...	...	...	...	1	+ 0.01	- 0.7
σ Tauri ...	3	18	81 23	1	+ 0.03	- 0.6	13	- 0.04	- 1.8	6	0.00	- 0.2
ϵ Eridani ...	3	27	99 52	5	- 0.03	- 1.8	13	0.00	- 0.1	11	- 0.03	- 0.1
η Tauri ...	3	40	66 16	1	- 0.01	- 0.4	2	- 0.03	+ 0.6	3	- 0.04	+ 0.7
γ^1 Eridani ...	3	52	103 51	3	- 0.10	- 0.9	3	+ 0.02	- 1.3	7	+ 0.03	+ 2.1
Δ Tauri ...	3	58	68 15	10	- 0.02	- 0.5	12	- 0.05	- 1.0	4	+ 0.01	- 1.1
σ^1 Eridani ...	4	6	97 9	7	+ 0.04	- 0.9	5	+ 0.06	- 1.2	2	+ 0.08	- 0.2
γ Tauri ...	4	13	74 40	17	+ 0.04	+ 0.6	5	0.00	- 0.5	9	+ 0.02	+ 0.3
ϵ Tauri ...	4	22	71 5	7	+ 0.02	+ 0.1	3	+ 0.01	- 1.4	7	- 0.02	- 1.1
α Tauri (<i>Aldebaran</i>)...	4	29	73 44	4	- 0.05	+ 1.0	...	...	...	...	...	...
μ Eridani ...	4	40	93 28	6	0.00	+ 0.3	6	+ 0.04	- 1.2	6	- 0.02	+ 0.7
ϵ Aurigæ ...	4	49	57 1	...	...	...	2	- 0.09	- 0.8	...	...	...
ϵ Leporis ...	5	0	112 32	...	...	...	4	+ 0.03	- 0.7	4	- 0.08	- 0.1

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1881.			1880.			1881.			1882.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
β Orionis (<i>Rigel</i>) ...	5	9	98 20	2	+ 0.07	- 1.3	1	+ 0.08	- 1.4	1	- 0.07	+ 1.3
β Tauri ...	5	19	61 30	4	- 0.01	- 0.2	7	- 0.08	- 1.1	14	- 0.08	+ 0.1
δ Orionis ...	5	26	90 23	2	+ 0.02	+ 0.3	2	+ 0.02	- 1.5	1	+ 0.01	- 1.2
α Leporis ...	5	27	107 55	4	- 0.07	- 0.5	7	+ 0.05	0.0	3	- 0.06	+ 0.4
ϵ Orionis ...	5	30	91 17	4	+ 0.08	- 0.6	1	+ 0.09	+ 0.1	3	+ 0.01	0.0
α Columbæ ...	5	35	124 8	...	...	...	4	+ 0.04	+ 0.7	...	...	...
κ Orionis ...	5	42	99 43	16	- 0.04	- 0.8	18	0.00	+ 0.5	7	- 0.04	0.0
α Orionis (<i>Var.</i>) ...	5	49	82 37	2	- 0.05	- 0.5	7	- 0.02	+ 0.7	5	- 0.01	+ 0.1
ν Orionis ...	6	1	75 13	4	- 0.07	- 2.4	10	0.00	- 2.8	...	...	...
η Geminorum ...	6	8	67 28	11	+ 0.01	- 0.9	9	0.00	- 1.0	...	...	...
μ Geminorum ...	6	16	67 26	4	- 0.02	- 0.5	4	- 0.09	- 2.5	2	- 0.11	+ 1.3
α Argus (<i>Canopus</i>) ...	6	21	142 38	...	...	...	9	+ 0.05	+ 1.8	...	...	...
γ Geminorum ...	6	31	73 30	4	+ 0.07	+ 2.1	7	- 0.01	+ 0.5	...	...	...
ξ Geminorum ...	6	39	76 59	11	0.00	- 1.8	6	- 0.01	- 2.1	8	- 0.01	- 0.5
α Canis Maj. (<i>Sirius</i>)..	6	40	106 33	...	...	...	6	- 0.03	+ 2.1	...	...	...
Cephei 51 (<i>Hev.</i>) ...	6	44	2 46	1	- 0.43	- 1.2	2	0.00	+ 3.2	10	- 0.82	- 0.7
θ Canis Majoris ...	6	49	101 53	14	- 0.03	- 1.7	26	+ 0.02	- 1.2	5	+ 0.01	- 1.1
ϵ Canis Majoris ...	6	54	118 49	...	...	...	6	+ 0.03	- 0.6	...	...	...
γ Canis Majoris ...	6	58	105 28	3	- 0.06	+ 0.8	10	+ 0.03	+ 0.4	...	...	...
δ Geminorum ...	7	13	67 48	1	- 0.09	- 2.3	2	- 0.01	- 2.3	...	...	...
β Canis Minoris ...	7	21	81 23	13	+ 0.04	- 1.9	12	+ 0.03	- 1.3	...	...	...
α^2 Geminor. (<i>Oaster</i>)..	7	27	57 51	...	...	...	9	- 0.02	0.0	...	...	...
α Can. Min. (<i>Procyon</i>)..	7	33	84 28	4	- 0.08	- 4.9	2	- 0.01	- 2.6	4	- 0.01	- 1.8
β Geminor. (<i>Pollux</i>)..	7	38	61 41	...	...	...	5	+ 0.01	+ 1.2	...	...	...
ξ Argus ...	7	44	114 34	4	- 0.08	- 0.3	4	- 0.09	+ 0.4	7	- 0.03	+ 0.7
δ Cancri ...	7	56	61 52	4	+ 0.01	- 0.1	7	- 0.06	- 1.0	5	+ 0.03	- 2.3
15 Argus ...	8	2	113 58	3	+ 0.04	- 0.4	9	- 0.01	+ 1.0	...	...	...
β Cancri ...	8	10	80 27	14	- 0.01	- 0.4	11	+ 0.03	+ 1.0	10	0.0	+ 0.5
η Cancri ...	8	26	69 9	3	+ 0.05	- 0.7	5	- 0.05	- 0.7	...	...	...
γ Cancri ...	8	36	68 6	8	- 0.01	+ 1.5	7	- 0.01	+ 0.7	...	...	...
ϵ Hydræ ...	8	40	83 9	...	...	...	2	- 0.02	- 0.2	...	...	...
ι Ursæ Majoris ...	8	51	41 30	...	...	...	...	...	...	8	- 0.08	- 0.7
α Cancri ...	8	52	77 41	5	- 0.02	- 0.5	6	- 0.02	+ 0.8	...	...	...
κ Cancri ...	9	1	78 51	6	- 0.01	+ 0.3	11	- 0.02	+ 0.4	19	+ 0.02	- 0.2
83 Cancri ...	9	12	71 47	2	+ 0.01	- 1.5	6	0.00	- 0.4	...	...	...

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1881.			1880.			1881.			1882.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s.</i>	<i>"</i>		<i>s.</i>	<i>"</i>		<i>s.</i>	<i>"</i>
ε Argus	9	14	148 47	...	.....	.....	7	+ 0'05	+ 2'3	...	.....	.....
θ Ursæ Majoris	9	25	37 47	1	+ 0'05	- 0'6	9	+ 0'06	- 1'2	...	.....	...
ο Leonis	9	35	79 34	1	+ 0'08	- 2'6	5	+ 0'03	- 0'1	28	+ 0'03	- 0'7
ε Leonis	9	39	65 41	1	- 0'19	- 0'1	9	- 0'05	- 1'7	...	.....	.....
μ Leonis	9	46	63 26	...	.....	.....	14	- 0'01	- 0'9	22	+ 0'04	0'0
π Leonis	9	54	81 23	1	+ 0'01	- 3'0	...	.....	.....	...	.....	.....
α Leonis (<i>Regulus</i>)	10	2	77 27	1	+ 0'07	- 0'4	...	.....	.....	...	.....	.....
γ ¹ Leonis	10	13	69 33	2	+ 0'06	- 2'3	12	- 0'02	- 2'1	...	.....	.....
η Hydre	10	20	106 14	...	.....	.....	15	+ 0'01	- 1'3	10	- 0'03	- 1'3
ρ Leonis	10	27	80 5	2	+ 0'02	- 3'2	5	+ 0'01	- 3'0	...	.....	.....
η Argus, (<i>Var. 1.</i>)	10	40	149 4	...	.....	.....	4	+ 0'05	- 1'6	...	.....	.....
ι Leonis	10	43	78 50	2	0'00	- 1'6	3	+ 0'01	- 1'3	...	.....	...
δ Leonis	10	54	85 45	2	+ 0'04	- 2'2	13	+ 0'03	+ 0'2	20	+ 0'03	- 1'1
α Ursæ Majoris	10	56	27 36	...	.....	.....	9	- 0'12	- 1'7	...	.....	.....
χ Leonis	10	59	82 1	...	.....	.....	4	- 0'07	- 2'4	...	.....	.....
δ Leonis	11	8	68 49	2	- 0'09	- 1'5	1	- 0'05	- 1'3	...	.....	.....
δ Crateris	11	13	104 8	2	- 0'03	- 2'1	4	- 0'03	- 1'4	...	.....	.....
τ Leonis	11	22	86 29	5	+ 0'04	- 0'7	10	+ 0'03	- 0'2	10	+ 0'14	+ 1'2
λ Draconis	11	24	20 1	...	.....	.....	5	- 0'30	- 2'7	...	.....	.....
υ Leonis	11	31	90 10	3	+ 0'06	- 1'0	8	0'00	- 0'9	...	.....	.....
β Leonis	11	43	74 46	3	0'00	- 1'5	4	+ 0'01	- 2'5	...	.....	.....
π Virginis	11	55	82 43	6	- 0'02	- 4'1	14	+ 0'04	- 2'5	10	- 0'01	- 2'3
ε Corvi	12	4	111 57	4	+ 0'03	- 0'9	2	+ 0'04	- 0'8	10	- 0'05	+ 0'3
η Virginis	12	14	90 0	4	+ 0'04	- 0'9	8	+ 0'03	- 0'7	10	+ 0'05	- 0'6
δ ² Corvi	12	24	105 51	7	- 0'03	- 0'6	18	+ 0'01	+ 0'4	29	- 0'08	+ 0'2
β Corvi	12	28	112 44	5	+ 0'08	- 1'3	5	+ 0'02	- 0'3	...	.....	.....
α Crucis ... ..	...	...	.....	...	.....	.....	...	.....	.....	...	.....	.....
δ Virginis	12	50	85 57	4	0'00	- 2'2	21	+ 0'04	- 1'2	...	.....	.....
α Canum Venaticorum	12	50	51 2	...	.....	.....	...	.....	.....	3	- 0'03	- 3'1
ε Virginis	12	56	78 24	3	+ 0'01	- 1'6	12	- 0'03	- 1'0	10	+ 0'03	+ 0'5
θ Virginis	13	4	94 54	2	+ 0'08	- 1'3	6	+ 0'10	0'0	...	.....	.....
α Virginis (<i>Spica</i>)	13	19	100 32	2	0'00	- 0'7	8	+ 0'02	+ 1'0	...	.....	...
ζ Virginis	13	29	80 59	3	+ 0'02	- 0'1	2	+ 0'01	+ 1'0	...	.....	.....
τ Bootis	13	42	71 57	6	- 0'03	- 0'3	13	+ 0'01	+ 0'9	16	+ 0'04	+ 0'5
η Ursæ Majoris	13	43	40 6	...	.....	.....	...	.....	.....	4	- 0'02	- 0'2

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1881.			1880.			1881.			1882.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
η Bootis ...	13	49	71 0	...	.....	...	1	+0.12	+ 2.4	...	.....	.....
β Centauri ...	13	55	149 48	...	.....	.....	6	-0.10	+ 3.0	...	.....	.....
τ Virginis ...	13	56	87 53	3	+0.01	- 0.9	1	+0.08	+ 1.3	10	+0.04	- 2.1
α Draconis ...	14	1	25 3	5	-0.24	- 1.5	...	.....	.....	...	.....	.....
α Bootis (<i>Arcturus</i>) ...	14	10	40 12	...	.....	.....	3	-0.06	+ 1.6	...	.....	.....
f Bootis ...	14	21	70 14	7	-0.03	- 0.6	19	-0.07	0.0	14	-0.11	+0.1
ρ Bootis ...	14	27	59 6	...	.....	.....	7	-0.04	+ 0.1	2	-0.07	+0.6
α Centauri ...	...	...	.....	...	.....	.....	...	.....	.....	...	.....	.....
ϵ^s Bootis ...	14	40	62 25	5	0.00	- 1.4	5	-0.05	- 0.6	10	-0.05	+0.4
α Libræ ...	14	44	105 33	3	+0.01	- 0.4	6	-0.04	- 0.2	...	.....	.....
β Ursæ Minoris ...	14	51	15 22	...	.....	.....	...	.....	.....	4	-0.06	-0.9
ψ Bootis ...	14	59	62 35	7	-0.02	- 0.1	1	-0.01	- 0.9	...	.....	.....
β Libræ ...	15	11	98 57	10	+0.04	- 0.4	7	+0.05	- 0.7	10	+0.03	0.0
α Coronæ ...	15	30	62 53	4	-0.07	- 1.8	...	.....	.....	...	.....	.....
α Serpentis ...	15	38	83 12	5	-0.04	- 1.6	2	-0.05	- 0.7	10	-0.04	- 1.1
ϵ Serpentis ...	15	45	85 10	13	+0.02	- 2.0	12	0.00	- 0.4	20	+0.02	+0.3
β^1 Scorpii ...	15	59	109 29	2	-0.03	- 2.9	4	+0.01	- 1.7	...	.....	.....
δ Ophiuchi ...	16	8	93 23	4	+0.05	- 1.1	9	+0.03	- 1.4	...	.....	.....
γ Herculis ...	16	17	70 34	1	-0.01	- 0.1	5	-0.03	- 0.3	20	-0.04	+0.3
α Scorpii (<i>Antares</i>) ...	16	22	116 10	3	+0.04	+ 0.1	3	+0.01	- 0.5	7	+0.05	- 1.0
ζ Ophiuchi ...	16	31	100 19	12	+0.02	- 1.4	10	+0.01	0.0	12	+0.01	-0.7
ζ Herculis ...	16	37	53 11	5	-0.05	- 0.4	4	-0.03	- 0.1	...	.....	.....
κ Ophiuchi ...	16	52	80 26	5	-0.01	- 0.7	7	-0.01	- 0.5	...	.....	.....
ϵ Ursæ Minoris ...	16	53	7 46	6	-0.09	- 0.4	6	+0.05	- 2.1	6	+0.37	- 1.0
η Ophiuchi ...	17	4	105 35	5	0.00	- 0.3	14	+0.02	- 0.7	...	.....	.....
α^1 Herculis (<i>Var.</i>) ...	17	9	75 28	3	+0.03	+ 0.1	...	.....	.....	...	.....	.....
θ Ophiuchi ...	17	15	114 53	2	+0.02	+ 0.1	6	-0.02	+ 1.7	...	.....	.....
σ Ophiuchi ...	17	21	85 45	12	0.00	- 0.3	1	-0.02	- 1.2	17	+0.04	+0.4
α Ophiuchi ...	17	29	77 21	3	-0.02	- 0.5	1	-0.02	+ 0.3	5	-0.01	+0.5
β Ophiuchi ...	17	33	85 23	10	+0.03	- 1.9	5	+0.09	- 1.2	10	+0.01	+0.4
μ Herculis ...	17	42	62 13	3	-0.01	- 1.7	3	-0.07	- 0.7	...	.....	.....
ζ^2 Ophiuchi ...	18	2	80 27	6	-0.05	- 1.2	18	-0.01	- 0.6	21	-0.04	-0.5
μ Sagittarii ...	18	7	111 5	3	+0.04	- 0.6	2	-0.01	- 1.1	...	.....	.....
δ Ursæ Minoris ...	18	11	3 23	3	+0.27	- 0.9	1	-0.03	+ 0.7	5	-0.49	+1.6
η Serpentis ..	18	15	92 56	5	+0.02	+ 0.4	12	+0.05	+ 2.9	8	+0.01	+1.6

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1881.			1880.			1881.			1882.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>°</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
λ Sagittarii ...	18	21	115 29	6	- 0.04	- 4.8	14	- 0.03	- 2.7	14	+ 0.06	- 4.7
α Lyrae (<i>Vega</i>) ...	18	33	51 20	5	- 0.04	- 1.0	3	- 0.03	- 1.0	5	- 0.13	- 2.0
β^1 Lyrae (<i>Var.</i>) ...	18	46	56 46	1	- 0.15	+ 0.2	6	- 0.09	- 0.6	...	.....	.....
ϵ Aquilæ ...	18	54	75 6	1	- 0.06	- 2.0	14	+ 0.01	0.0	10	+ 0.02	- 0.4
ζ Aquilæ ...	19	0	76 19	8	- 0.08	- 1.7	1	+ 0.16	- 1.1	...	.....	.....
ω Aquilæ ...	19	12	78 37	10	- 0.04	- 1.0	3	- 0.03	0.0	...	.....	.....
δ Aquilæ ...	19	19	87 7	18	+ 0.02	- 0.6	5	+ 0.07	+ 1.2	...	.....	.....
h^2 Sagittarii ...	19	29	115 9	7	+ 0.01	- 0.3	8	+ 0.04	- 1.5	5	- 0.05	+ 1.0
γ Aquilæ ...	19	41	79 41	13	- 0.01	- 1.6	3	- 0.07	- 0.5	...	.....	.....
λ Ursæ Minoris ...	19	43	1 3	1	+ 0.01	- 1.7	...	.....	.....	...	.....	.....
α Aquilæ (<i>Altair</i>) ...	19	45	81 27	...	.....	.....	...	.....	.....	10	- 0.01	- 1.1
β Aquilæ ...	19	49	83 53	7	- 0.02	- 3.0	2	+ 0.01	- 4.5	3	+ 0.07	+ 0.3
θ Aquilæ ...	20	5	91 10	16	+ 0.04	- 0.8	17	+ 0.07	+ 1.1	12	+ 0.02	- 0.4
α^2 Capricorni ...	20	11	102 55	8	+ 0.01	- 1.4	1	- 0.09	- 0.2	...	.....	.....
ρ Capricorni ...	20	22	108 12	1	+ 0.02	- 0.6	5	+ 0.08	+ 0.9	...	.....	.....
ϵ Delphini ...	20	28	79 6	2	- 0.07	- 1.5	5	- 0.02	- 0.5	13	0.00	+ 0.4
ϵ Aquarii ...	20	41	99 56	8	+ 0.01	- 1.0	14	+ 0.01	+ 0.8	9	+ 0.02	- 0.1
β^2 Vulpeculæ ...	20	49	62 24	4	+ 0.06	- 2.6	2	- 0.04	- 2.6	...	.....	.....
θ Capricorni ...	20	59	107 42	5	- 0.04	- 0.1	7	- 0.07	+ 2.0	10	+ 0.01	+ 2.1
δ^1 Cygni ...	21	2	51 50	...	.....	.....	2	+ 0.02	+ 5.2	...	.....	.....
ζ Cygni ...	21	8	60 16	2	+ 0.02	- 2.6	6	- 0.02	- 0.1	4	- 0.04	- 1.0
α Cephei ...	21	16	27 55	...	.....	.....	...	.....	.....	1	- 0.53	- 2.2
β Aquarii ...	21	25	96 6	11	+ 0.04	- 0.7	5	+ 0.01	0.0	...	.....	.....
ϵ Pegasi ...	21	38	80 40	6	- 0.04	- 1.7	4	- 0.03	- 0.1	...	.....	.....
16 Pegasi ...	21	48	64 38	9	- 0.05	- 3.2	5	- 0.07	- 0.2	...	.....	.....
α Aquarii ...	22	0	90 54	4	- 0.02	- 2.4	2	+ 0.02	- 1.5	...	.....	.....
α Gruis ...	22	1	137 32	...	.....	.....	...	.....	.....	9	- 0.07	+ 2.2
θ Aquarii ...	22	11	98 23	9	+ 0.05	- 1.4	4	0.00	+ 0.8	...	.....	.....
γ Aquarii ...	22	16	91 59	12	+ 0.03	- 0.2	14	+ 0.03	+ 0.3	19	0.00	+ 0.7
η Aquarii ...	22	29	90 44	7	+ 0.02	- 1.8	8	+ 0.07	- 0.2	...	.....	.....
ζ Pegasi ...	22	36	79 47	9	- 0.01	- 1.9	5	- 0.03	- 0.6	...	.....	.....
λ Aquarii ...	22	46	98 13	7	+ 0.03	- 0.9	16	+ 0.04	+ 1.1	12	+ 0.02	+ 1.5
α Pis. Aus. (<i>Fomalhaut</i>) ...	22	51	120 15	...	.....	.....	...	.....	.....	18	0.00	- 0.8
α Pegasi (<i>Markab</i>) ...	22	59	75 26	3	- 0.09	+ 0.5	1	- 0.04	+ 0.3	...	.....	.....
γ Piscium ...	23	11	87 22	7	+ 0.02	- 2.3	5	+ 0.01	+ 0.5	...	.....	.....

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1881.		1880.			1881.			1882.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>°</i>	<i>'</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>	
κ Piscium	23	21	89	24	6	+ 0.02	- 2.2	9	- 0.03	- 0.3	... ..
ι Piscium	23	34	85	1	1	+ 0.01	- 2.4	10	+ 0.01	0.0	... ..
γ Cephei	23	34	13	2	...	.....	...	...	8	- 0.14	+ 0.4
δ Sculptoris	23	43	118	47	1	- 0.05	+ 1.6	4	- 0.10	+ 1.9	18 + 1.7
ω Piscium	23	53	83	48	7	- 0.01	- 1.6	5	- 0.04	- 0.5	... ..

Page.	No.	Subject.	For	Read
87	28	Seconds of P. D. (Oct. 22)	4.5	5.5
88	28	" " " " " " " " " " " "	13.9	14.9
"	32	" " " " " " " " " " " "	55.4	56.4
"	36	" " " " " " " " " " " "	56.7	57.7
90	56	Seconds of R. A.	48.43	42.43
93	98	Degrees of P. D.	136	132
94	111	Seconds of R. A.	22.28	23.28
151	25	Secular Variation in P. D.	8.099	0.099
157	109	Annual Precession in P. D.	14.095	14.111
"	120	" " in R. A.	1.3336	1.3415
"	"	" " in P. D.	12.827	12.870
196 } 254 } 240 }	25	Seconds of P. D.	15.8	32.3
	518	Date	June	July

In R. A. for 1880.

Page	Number	Date	For	Read	Page	Number	Date	For	Read
			<i>s</i>	<i>s</i>				<i>s</i>	<i>s</i>
11	121	Dec. 4	2.86	2.93	17	205	Jan. 7	41.36	40.47
"	122	" 14	29.89	29.91	"	209	" 9	59.49	59.45
"	124	Jan. 12	10.11	10.15	"	218	" 3	7.99	8.04
"	"	Dec. 3	.03	9.91	18	219	" 6	47.00	46.92
"	130	" 3	25.80	25.74	"	220	" 7	10.50	10.62
"	"	" 28	.75	.70	"	222	" 8	38.95	38.87
"	"	" 29	.66	.60	"	"	" 10	.87	.80
12	135	Jan. 3	38.69	38.65	"	223	" 12	19.54	19.61
"	136	Dec. 25	7.38	7.34	"	224	" 9	1.60	1.45
"	"	" 27	.68	.59	"	225	" 13	22.32	22.35
"	"	" 28	.47	.34	"	230	Mar. 4	8.29	9.33
"	"	" 29	.41	.25	"	231	Jan. 6	23.67	23.59
"	"	" 30	.44	.30	"	"	" 7	.76	.65
"	137	" 14	9.70	9.75	"	"	" 10	.78	.70
13	155	Jan. 3	41.76	41.80	"	234	" 9	1.08	1.15
"	156	" 7	0.49	0.45	"	236	Mar. 4	37.13	37.27
"	"	" 8	.53	.49	19	241	Jan. 3	1.97	1.92
"	157	Dec. 31	30.24	30.21	"	244	" 7	15.83	15.95
14	165	Jan. 9	21.95	22.02	"	245	" 6	8.37	8.43
"	167	Mar. 4	40.07	40.14	"	"	" 9	.39	.44
"	171	Dec. 27	55.29	55.25	"	247	" 10	19.99	20.08
"	"	" 28	.14	.08	"	"	" 12	20.08	.14
"	"	" 29	.18	.11	"	248	" 13	4.46	4.49
"	"	" 30	.23	.17	20	256	Jan. 12	51.12	51.16
"	"	" 31	.89	.33	"	257	" 10	52.77	52.69
"	172	Jan. 10	6.66	6.62	"	"	" 13	.73	.69
15	176	Dec. 27	21.23	21.21	"	261	" 10	16.69	16.76
"	179	" 28	13.23	13.17	"	"	" 12	.50	.55
"	"	" 29	.09	.02	"	262	" 13	46.67	46.71
"	180	Jan. 6	16.81	16.86	21	265	Sep. 23	44.52	44.13
"	"	" 8	.84	.89	"	266	Jan. 10	24.69	24.64
"	181	Mar. 4	16.86	16.92	"	267	" 12	41.31	41.29
"	182	Dec. 30	6.01	6.09	"	269	" 13	4.10	4.07
"	"	" 31	.06	.13	"	276	" 10	25.42	25.47
"	183	Jan. 9	40.32	40.40	"	"	" 12	.20	.24
"	184	" 12	9.27	9.33	22	281	" 13	14.38	14.42
"	185	" 3	51.64	51.69	"	283	Mar. 4	14.85	14.81
"	"	" 10	.49	.57	"	"	Apl. 3	.80	.85
"	186	Mar. 4	48.51	48.80	"	"	" 10	.59	.62
16	195	Jan. 9	41.88	41.85	"	286	" 7	47.59.69	48.0.72

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1880

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
1 21 <i>Andromedæ α</i> , <i>Alpherat</i> .						6 14 <i>Cassiopeiæ λ</i>					
Nov. 19	...	0 2 11.16	...	61 34 18.4	R	Oct. 9	5.5	0 25 9.16	...	36 8 23.3	M
22	...	2 11.10	...	34 19.7	R	13	...	25 9.31	5	8 20.4	M
25	...	2 11.19	...	34 21.8	R	16	...	25 9.33	...	8 24.5	M
						21	5.5	25 9.21	...	8 22.7	M
2 88 <i>Pegasi γ</i> , <i>Algenib</i> .						7 <i>T Piscium</i> , <i>Var. 3</i> .					
Oct. 7	...	0 7 3.40	...	75 28 58.5	M	Dec. 9	10.5	0 26 47.85	3	76 3 41.4	R
9	...	7 3.48	...	28 59.0	M						
27	...	7 3.34	...	28 58.2	M	8 β ³ <i>Tucanæ</i> .					
Nov. 18	...	7 3.42	...	29 0.1	R	Oct. 20	...	0 27 15.47	...	153 41 33.4	M
24	...	7 3.42	...	29 0.0	R	26	...	27 15.48	5	41 33.2	M
Dec. 4	...	7 3.46	...	29 0.0	R	30	5.5	27 15.57	...	41 34.4	M
10	...	7 3.31	...	29 1.8	M	Nov. 16	5.0	27 15.27	...	41 34.8	R
3 8 <i>Ceti ι</i>						9 <i>Lacaille 139</i> .					
Nov. 5	...	0 13 18.77	...	99 29 19.8	R	Oct. 28	7.0	0 28 17.54	2	161 55 44.0	M
17	...	13 18.71	...	29 21.8	R	Nov. 24	...	28 17.31	4	55 43.8	R
18	...	13 18.68	...	29 19.8	R	Dec. 3	...	28 17.03	4	55 44.2	R
25	...	13 18.80	...	29 20.9	R	4	...	28 16.93	5	55 46.4	R
Dec. 3	...	13 18.69	...	29 21.1	R	7	...	28 17.29	4	55 44.1	R
7	...	13 18.76	...	29 19.6	R	10 ξ <i>Phœnicis</i> .					
10	...	13 18.65	...	29 22.7	M	Oct. 9	5.5	0 36 17.90	...	147 9 41.5	M
11	...	13 18.73	...	29 20.2	M	27	5.5	36 17.96	...	9 42.9	M
13	...	13 18.65	...	29 21.0	M	Nov. 5	5.0	36 17.90	...	9 43.0	R
4 12 <i>Ceti</i> .						9	...	36 17.93	4	9 40.6	R
Nov. 9	...	0 23 54.99	...	94 37 14.1	R	11 ρ <i>Tucanæ</i> .					
11	...	23 54.83	...	37 14.5	R	Nov. 16	5.6	0 37 20.45	4	156 7 39.6	R
17	...	23 54.80	...	37 15.1	R	19	...	37 20.43	4	7 38.5	R
19	...	23 54.77	...	37 14.1	R	24	5.6	37 20.47	...	7 41.6	R
Dec. 8	...	23 54.81	...	37 13.9	R	25	5.6	37 20.37	...	7 38.0	R
10	...	23 54.87	...	37 15.7	M	12 16 <i>Ceti β</i>					
11	...	23 54.74	...	37 15.1	M	Nov. 18	...	0 37 33.79	...	108 38 42.6	R
13	...	23 54.77	...	37 14.6	M	Dec. 4	...	37 33.81	...	38 44.1	R
5 <i>Taylor 120</i> .						7	...	37 33.81	...	38 44.6	R
Oct. 8	6.0	0 24 37.50	...	138 52 32.8	M						
15	...	24 37.55	...	52 31.8	M						

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
Dec. 9	...	0 37 33.75	...	108 38 43.1	R	Dec. 10	8.0	0 51 43.30	...	8 46 19.1	M
11	...	37 33.76	...	38 43.7	M	11	8.0	51 43.46	...	46 19.3	M
13	...	37 33.89	...	38 43.6	M	13	8.0	51 43.21	...	46 19.9	M
14	...	37 33.76	...	38 44.0	M	14	8.0	51 43.72	...	46 19.9	M
15	...	37 33.70	...	38 45.3	M	15	8.0	51 43.55	...	46 20.1	M
16	...	37 33.74	...	38 44.9	M						
13	<i>η Phœnicis.</i>					18	<i>2 Ursæ Minoris.</i>				
Oct. 13	...	0 37 57.57	...	148 7 18.4	M	Oct. 14	...	0 52 37.33	3	4 23 13.7	M
Nov. 13	...	37 57.48	...	7 18.1	R	25	...	52 36.37	3	23 14.0	M
17	...	37 57.45	...	7 19.5	R	29	...	52 35.87	3	23 14.1	M
						Nov. 24	...	52 35.76	3	23 16.3	R
14	<i>17 Ceti φ¹</i>					19	<i>R. P. L. 14.</i>				
Oct. 15	...	0 38 8.09	...	101 15 47.4	M	Dec. 7	...	0 56 12.47	3	3 29 41.5	R
20	...	38 8.05	...	15 47.7	M						
25	...	38 7.99	...	15 48.1	M	20	<i>71 Piscium ε</i>				
30	...	38 8.00	...	15 48.6	M	Oct. 20	...	0 56 43.04	...	82 45 21.3	M
15	<i>λ² Sculptoris.</i>					21	...	56 42.91	...	45 21.8	M
Oct. 16	...	0 38 23.66	...	129 4 58.1	M	26	...	56 42.98	...	45 22.7	M
21	6.0	38 23.85	...	4 57.7	M	27	...	56 42.87	...	45 22.0	M
26	...	38 23.85	...	4 57.9	M	28	...	56 42.89	...	45 21.1	M
29	5.5	38 23.81	...	4 56.9	M	30	...	56 43.00	...	45 23.9	M
16	<i>63 Piscium δ</i>					Nov. 16	...	56 42.95	...	45 22.3	R
Nov. 11	...	0 42 27.25	...	83 4 2.9	R	18	...	56 42.93	...	45 21.7	R
13	...	42 27.36	...	4 5.1	R	Dec. 8	...	56 43.06	...	45 21.2	R
22	...	42 27.41	...	4 3.4	R	16	...	56 42.95	...	45 23.0	M
24	...	42 27.38	...	4 3.8	R						
Dec. 3	...	42 27.37	...	4 5.4	R	21	<i>1 Ursæ Minoris α, Polaris.</i>				
9	...	42 27.37	...	4 2.6	R	Nov. 13	...	1 14 46.74	2	1 19 51.2	R
14	...	42 27.37	...	4 4.6	M						
15	...	42 27.36	...	4 4.5	M	22	<i>45 Ceti θ</i>				
16	...	42 27.28	...	4 4.3	M	Oct. 13	...	1 18 1.41	...	98 48 8.7	M
17	<i>T Cephei, Var.</i>					14	...	18 1.49	...	48 9.5	M
Nov. 19	8.0	0 51 43.34	...	8 46 16.8	R	Dec. 8	...	18 1.40	...	48 9.5	R
22	8.2	51 43.31	...	46 18.7	R	17	...	18 1.39	...	48 9.5	M
25	7.0	51 43.66	...	46 17.5	R	18	...	18 1.45	...	48 11.5	M
Dec. 4	7.0	51 43.53	...	46 17.9	R						
9	8.0	51 43.79	...	46 16.8	R	23	<i>U Ceti, Var 5.</i>				
						Nov. 5	7.0	1 19 47.30	...	94 33 4.6	R
						11	8.0	19 47.30	...	33 4.6	R
						16	7.5	19 47.27	...	33 7.7	R

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.	No. of Wires.	Mean Polar Distance 1880.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.	No. of Wires.	Mean Polar Distance 1880.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
Nov. 18	7.2	1 19 47.29	...	94 33 6.5	R	29 106 <i>Piscium</i> ν					
19	...	19 47.22	...	33 6.0	R	Oct. 21	...	1 35 11.24	...	85 7 11.5	M
22	9.0	19 47.29	...	33 6.2	R	Dec. 7	...	35 11.17	...	7 12.3	R
24	7.6	19 47.37	...	33 8.3	R	9	...	35 11.17	...	7 10.7	R
Dec. 3	7.0	19 47.29	...	33 5.3	R	17	...	35 11.29	...	7 11.2	M
4	7.0	19 47.57	...	33 6.2	R	18	...	35 11.19	...	7 12.2	M
7	7.0	19 47.20	...	33 5.5	R	22	...	35 11.13	...	7 13.1	M
24 48 <i>Andromedæ</i> ω						25	...	35 11.18	...	7 10.8	M
Oct. 25	...	1 20 28.77	...	45 12 47.0	M	29	...	35 11.20	...	7 12.1	M
28	...	20 28.76	...	12 45.4	M	30	...	35 11.28	...	7 13.3	M
30	...	20 28.53	...	12 46.7	M	31	...	35 11.22	...	7 13.1	M
Nov. 25	...	20 28.89	...	12 47.1	R	30 <i>Taylor</i> 568.					
25 <i>R Sculptoris</i> , Var. 1.						Oct. 26	...	1 36 53.89	...	140 38 40.0	M
Dec. 9	7.0	1 21 26.45	...	123 9 56.6	R	28	6.0	36 53.87	...	38 42.1	M
10	7.0	21 26.54	...	9 58.4	R	30	6.0	36 53.65	...	38 42.7	M
11	7.0	21 26.42	...	9 56.5	R	Nov. 5	5.5	36 53.82	...	38 40.6	R
13	7.0	21 26.48	...	9 56.3	R	11	5.6	36 53.71	...	38 40.1	R
14	7.0	21 26.45	...	9 57.4	R	31 <i>Lacaille</i> 507.					
26 38 <i>Cassiopeiæ</i> .						Oct. 27	5.8	1 37 41.46	...	151 23 41.1	M
Jan. 3	6.0	1 22 19.28	...	20 21 13.1	M	Nov. 18	5.6	37 41.34	...	23 38.4	R
Oct. 21	6.0	22 19.39	...	21 11.6	M	24	5.6	37 41.39	...	23 40.7	R
26	...	22 19.42	...	21 9.7	M	32 q^1 <i>Eridani</i> .					
29	5.5	22 19.44	...	21 12.9	M	Oct. 29	6.0	1 37 51.34	...	144 20 28.5	M
27 <i>R Piscium</i> , Var. 1.						Nov. 18	5.6	37 51.78	...	20 33.1	R
Dec. 4	9.5	1 24 26.91	...	37 44 22.7	R	16	5.6	37 51.83	4	20 30.6	R
7	9.6	24 26.85	...	44 21.4	R	Dec. 3	5.6	37 51.63	...	20 33.5	R
23 99 <i>Piscium</i> η						33 110 <i>Piscium</i> σ					
Nov. 19	...	1 25 3.77	...	75 16 23.3	R	Jan. 6	...	1 39 3.45	...	81 26 49.5	M
24	...	25 3.78	...	16 24.0	R	7	...	39 3.44	...	26 48.0	M
25	...	25 3.80	...	16 24.0	R	Dec. 14	...	39 3.54	...	26 52.1	M
Dec. 3	...	25 3.62	...	16 24.9	R	20	...	39 3.44	...	26 48.5	M
17	...	25 3.71	...	16 21.7	M	34 6 <i>Arietis</i> β					
18	...	25 3.85	...	16 23.7	M	Nov. 22	...	1 48 0.55	...	69 46 46.5	R
20	...	25 3.68	...	16 24.2	M	Dec. 20	...	48 0.72	...	46 44.8	M
30	...	25 3.80	...	16 25.4	M	22	...	48 0.65	...	46 46.5	R
31	...	25 3.76	...	16 24.7	M						

Separate Results of Madras Meridian Circle Observations in 1880.

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
Dec. 27	...	1	48	0.56	...	69	46	44.6	R	41 <i>S Arietis, Var. 2.</i>									
28	...		48	0.75	...		46	43.4	R	Dec. 9	10.5	1	58	10.88	3	78	2	56.9	R
30	...		48	0.50	...		46	46.6	M	27	10.2		58	11.14	4		2	55.2	R
31	...		48	0.56	...		46	47.4	M	29	10.0		58	10.97	5		2	55.6	R
35 η^1 <i>Hydri, Var.</i>										30	10.0		58	10.84	2		2	55.1	M
Jan. 6	...	1	49	32.85	...	158	32	7.8	M	42 <i>13 Arietis a</i>									
Oct. 28	...		49	32.75	...		32	9.6	M	Oct. 29	...	2	0	24.54	...	67	6	20.5	M
Dec. 10	7.5		49	32.72	...		32	10.7	M	Nov. 24	...		0	24.47	...		6	21.8	R
11	7.5		49	32.80	...		32	10.1	M	Dec. 4	...		0	24.51	...		6	20.7	R
13	...		49	32.82	5		32	11.6	M	28	...		0	24.59	...		6	19.6	R
14	7.5		49	32.81	...		32	11.0	M	43 <i>67 Ceti.</i>									
15	7.5		49	32.63	...		32	9.5	M	Jan. 3	...	2	10	59.82	...	96	58	30.2	M
36 η^2 <i>Hydri.</i>										Nov. 18	...		10	59.91	...		58	31.9	R
Nov. 24	...	1	51	53.78	...	158	14	20.5	R	19	...		10	59.86	...		58	29.8	R
Dec. 3	...		51	53.62	...		14	18.1	R	25	...		10	59.62	...		58	32.3	R
7	...		51	53.56	...		14	18.4	R	Dec. 11	...		10	59.91	...		58	30.8	M
37 <i>48 Cassiopeiæ.</i>										13	...		10	59.79	...		58	33.5	M
Jan. 7	5.0	1	52	7.01	...	19	40	32.7	M	14	...		10	59.88	...		58	33.3	M
Oct. 29	...		52	7.05	...		40	31.8	M	15	...		10	59.94	...		58	31.9	M
Nov. 5	5.0		52	7.00	...		40	31.3	R	22	...		10	59.86	...		58	32.2	R
13	5.0		52	7.22	...		40	33.8	R	25	...		10	59.88	...		58	30.2	R
38 <i>50 Cassiopeiæ.</i>										27	...		10	59.83	...		58	31.3	R
Oct. 30	...	1	53	12.47	...	18	9	37.6	M	29	...		10	59.92	...		58	33.4	R
Nov. 11	...		53	12.78	...		9	37.1	R	31	...		10	59.68	...		58	33.2	M
16	...		53	12.82	...		9	36.7	R	44 <i>73 Ceti ξ^2</i>									
18	...		53	12.99	...		9	37.5	R	Nov. 24	...	2	21	46.80	...	82	4	42.5	R
39 <i>Lacaille 616.</i>										Dec. 22	...		21	46.72	...		4	42.1	R
Jan. 3	...	1	56	32.51	...	156	38	52.7	M	45 <i>R. P. I. 26.</i>									
40 χ <i>Phœnicis.</i>										Nov. 19	...	2	26	40.56	3	3	28	40.2	R
Jan. 8	...	1	56	53.60	...	135	17	30.8	M	Dec. 10	...		26	42.95	3		28	39.8	M
Nov. 5	5.0		56	53.60	...		17	29.4	R	11	...		26	43.20	3		28	38.2	M
13	5.0		56	53.72	...		17	31.2	R	13	...		26	43.34	3		28	38.1	M
										14	...		26	42.58	3		28	38.1	M
										15	...		26	42.93	3		28	38.7	M

Separate Results of Madras Meridian Circle Observations in 1880.

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<i>R. P. L. 26—s.p.</i>						52 <i>Lacaille 893.</i>					
May 19	...	2 26 41.57	3	8 28 39.1	R	Nov. 24	5.6	2 41 21.00	...	157 18 11.7	R
46 <i>35 Arietis.</i>						53 <i>15 Persei η</i>					
Jan. 8	...	2 36 24.58	...	62 48 18.6	M	Jan. 10	...	2 41 57.01	...	34 36 18.0	M
47 <i>ζ Horologii.</i>						Dec. 15	...	41 57.03	...	36 18.0	M
Nov. 24	5.6	2 36 55.66	...	145 3 52.8	R	17	...	41 56.94	...	36 12.9	M
25	...	36 55.62	...	3 50.8	R	18	...	41 56.92	...	36 18.4	M
Dec. 3	5.6	36 55.45	...	3 54.2	R	20	...	41 56.98	4	36 18.6	M
7	5.6	36 55.50	...	3 52.1	R	54 <i>γ Horologii.</i>					
48 <i>Lalande 5033.</i>						Dec. 8	5.6	2 42 53.63	...	154 12 30.0	R
Jan. 7	8.0	2 36 58.00	...	72 57 48.4	M	30	5.6	42 53.69	...	12 30.5	M
9	8.0	36 57.99	...	57 44.9	M	55 <i>16 Persei.</i>					
13	8.0	36 58.05	...	57 47.1	M	Dec. 4	...	2 43 0.49	...	52 10 35.6	R
16	8.0	36 57.89	...	57 46.4	M	16	...	43 0.67	...	10 35.4	M
19	8.0	36 58.07	...	57 48.6	M	22	...	43 0.46	...	10 36.0	R
22	8.0	36 58.05	...	57 45.9	M	25	...	43 0.47	...	10 35.7	R
49 <i>86 Ceti γ^2</i>						29	...	43 0.64	...	10 35.4	R
Jan. 3	...	2 37 5.00	...	87 16 18.6	M	56 <i>ζ Hydri.</i>					
Dec. 27	...	37 4.98	...	16 18.7	R	Dec. 27	...	2 43 41.84	...	158 7 18.1	R
28	...	37 4.86	...	16 12.8	R	57 <i>v Fornacis—1st.</i>					
50 <i>36 Arietis.</i>						Nov. 18	...	2 43 50.68	...	127 54 9.3	R
Jan. 12	7.0	2 37 37.88	...	72 44 42.7	M	25	...	43 50.65	...	54 10.6	R
15	7.0	37 37.44	...	44 41.2	M	Dec. 7	...	43 50.85	...	54 8.6	R
17	7.0	37 37.48	...	44 41.2	M	8	...	43 50.54	...	54 8.2	R
23	7.0	37 37.57	...	44 40.1	M	31	...	43 50.72	4	54 12.2	M
Nov. 16	7.0	37 37.40	...	44 43.0	R	58 <i>γ^1 Fornacis.</i>					
18	7.0	37 37.37	...	44 42.4	R	Dec. 9	5.0	2 44 32.09	...	115 3 14.8	R
51 <i>ϵ Hydri.</i>						11	6.0	44 32.21	...	3 17.4	M
Dec. 9	5.0	2 37 44.76	...	158 46 54.6	R	14	6.0	44 32.02	...	3 16.9	M
10	5.5	37 44.67	...	46 57.9	M	59 <i>2 Eridani τ^2</i>					
11	5.5	37 44.85	...	46 54.0	M	Jan. 22	...	2 45 35.54	...	111 29 59.1	M
13	...	37 44.87	5	46 55.4	M	24	...	45 35.79	...	29 57.7	M
14	5.0	37 44.86	...	46 54.8	M						

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60 18 Persei τ						67 50 Arietis.					
Dec. 10	...	2 45 45.19	...	37 43 46.9	R	Jan. 6	7.0	2 53 46.90	...	72 28 19.3	M
13	...	45 45.15	...	43 46.2	M	8	...	53 46.77	...	28 20.3	M
17	...	45 45.37	6	43 46.4	M	68 92 Ceti α , Menkar.					
18	...	45 45.25	3	43 47.6	M	Dec. 29	...	2 56 0.32	...	86 23 54.2	R
28	...	45 45.41	4	43 45.6	R	69 23 Persei γ					
61 η^3 Fornacis.						Jan. 24	...	2 56 6.93	...	36 57 52.5	M
Jan. 8	5.6	2 45 49.38	...	126 10 12.7	M	Dec. 10	...	56 6.66	...	57 52.3	M
16	6.0	45 49.58	...	10 15.3	M	70 Radcliffe 860.					
62 44 Arietis ρ^1						Dec. 8	5.0	2 56 31.75	...	33 45 59.8	R
Jan. 7	7.0	2 48 11.89	...	72 45 16.1	M	16	5.0	56 31.72	...	46 0.5	M
9	7.0	48 11.71	...	45 15.0	M	17	5.0	56 31.77	...	45 59.9	M
63 46 Arietis ρ^3						18	...	56 31.66	...	46 2.5	M
Jan. 10	...	2 49 39.94	...	72 27 21.9	M	71 462 Brisbane.					
12	...	49 39.78	...	27 23.8	M	Nov. 18	5.0	2 56 32.01	...	154 32 51.4	R
15	...	49 39.73	...	27 22.0	M	Dec. 9	5.0	56 31.83	...	32 55.5	R
17	...	49 39.95	...	27 23.3	M	11	5.0	56 32.03	...	32 56.7	M
20	...	49 39.77	...	27 21.8	M	13	...	56 32.10	6	32 57.8	M
23	...	49 39.79	...	27 22.9	M	14	5.0	56 32.06	...	32 56.1	M
64 22 Persei π						72 9 Eridani ρ^2					
Jan. 27	...	2 51 5.49	...	50 49 6.5	M	Jan. 20	...	2 56 48.85	...	98 9 30.2	M
Nov. 19	...	51 5.51	...	49 7.3	R	Nov. 24	...	56 48.83	...	9 29.1	R
24	...	51 5.43	...	49 7.7	R	25	...	56 48.76	...	9 29.0	R
65 Lalande 5456.						Dec. 7	...	56 48.75	...	9 27.4	R
Jan. 13	8.9	2 51 10.96	...	72 40 11.9	M	73 Lalande 5701.					
19	8.0	51 10.93	...	40 11.4	M	Jan. 3	9.0	2 59 1.42	...	72 17 15.7	M
22	9.0	51 10.84	...	40 13.0	M	7	9.0	59 1.49	...	17 17.3	M
26	9.0	51 11.06	...	40 10.9	M	74 ϵ Persei.					
Nov. 16	8.0	51 10.89	...	40 13.6	R	Jan. 15	...	3 0 24.73	...	40 50 47.5	M
18	8.0	51 10.91	...	40 12.8	R	17	...	0 24.85	...	50 47.7	M
66 6 Eridani.						19	...	0 24.72	...	50 46.8	M
Nov. 25	5.6	2 52 45.54	...	114 5 19.5	R	27	...	0 24.55	...	50 46.9	M
Dec. 4	5.6	52 45.38	...	5 20.6	R	Nov. 19	...	0 24.68	...	50 48.2	R

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75	53 Arietis.					83	96 Ceti κ^1				
Jan. 9	7.8	3 0 40.21	...	72 35 3.1	M	Jan. 23	...	3 13 4.10	...	87 4 14.1	M
						26	...	13 4.09	...	4 16.4	M
76	27 Persei κ					84	e Eridani.				
Jan. 12	...	3 1 24.32	...	45 35 55.3	M	Nov. 18	...	8 15 8.23	...	133 31 45.3	R
						19	...	15 8.32	4	31 48.0	R
77	R. P. L. 33.					85	ζ^1 Reticuli.				
Dec. 3	...	3 4 9.61	3	5 31 5.3	R	Jan. 27	6.0	3 15 9.95	...	153 2 7.3	M
						Nov. 24	5.6	15 9.97	...	2 5.7	R
						Dec. 10	5.5	15 10.13	...	2 7.6	M
						13	...	15 10.07	2	2 8.6	M
	R. P. L. 33—s.p.					86	ζ^2 Reticuli.				
June 4	...	3 4 7.76	3	5 31 5.0	R	Dec. 3	5.6	3 15 36.46	...	153 57 56.1	R
17	...	4 8.40	3	31 5.1	R	9	5.6	15 36.49	...	57 56.0	R
78	57 Arietis δ					11	5.5	15 36.79	...	57 57.4	M
Nov. 25	...	3 4 46.13	...	70 43 40.8	R	14	5.5	15 36.53	...	57 58.2	M
Dec. 7	...	4 46.05	...	43 40.9	R	87	Lacaille 1092.				
9	...	4 46.12	...	43 39.5	R	Dec. 15	...	3 16 37.51	...	157 21 50.1	M
25	...	4 46.07	...	43 39.6	R	17	...	16 37.53	...	21 47.0	M
30	...	4 46.04	...	43 41.5	M	18	...	16 37.46	...	21 48.5	M
79	Radcliffe 914.					22	...	16 37.63	...	21 48.4	R
Jan. 16	6.0	3 9 26.99	...	24 47 18.6	M	27	...	16 37.34	...	21 49.6	R
19	5.7	9 26.76	...	47 15.1	M	88	Anon.				
80	Lalande 6095.					Jan. 3	9.8	3 16 49.93	...	71 52 22.4	M
Jan. 9	9.0	3 11 32.88	...	72 15 56.5	M	7	9.8	16 50.28	...	52 23.3	M
10	...	11 32.78	...	15 55.0	M	21	9.0	16 50.05	...	52 22.6	M
12	7.8	11 33.95	...	15 58.7	M	89	1 Tauri o, Var. 5.				
81	Anon.					Dec. 4	...	3 18 21.46	...	81 23 40.1	R
Jan. 13	9.5	3 11 53.31	...	71 57 59.4	M	90	Lalande 6341.				
15	9.5	11 53.42	...	57 55.6	M	Jan. 6	7.5	3 20 12.36	...	71 39 52.9	M
17	9.0	11 52.28	...	57 57.5	M	8	7.5	20 12.26	...	39 54.4	M
22	9.5	11 52.41	...	57 55.1	M	13	7.8	20 12.31	...	39 54.4	M
82	15 Eridani.					15	7.8	20 12.52	...	39 58.4	M
Jan. 24	...	3 13 3.72	...	112 57 1.8	M	19	8.0	20 12.14	...	39 52.4	M

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
91 <i>Radcliffe 962.</i>									
Jan. 20	...	3	20	20.68	...	31	32	17.9	M
Feb. 2	...		20	20.53	...		32	18.7	M
92 <i>Radcliffe 969.</i>									
Jan. 12	5.0	3	20	51.44	...	34	57	50.4	M
Nov. 19	5.0		20	51.37	...		57	54.4	R
Dec. 8	5.0		20	51.66	...		57	52.6	R
93 <i>Anon.</i>									
Dec. 9	10.0	3	21	18.22	...	71	56	10.6	R
22	10.0		21	18.24	...		56	11.9	R
25	10.0		21	18.24	...		56	10.1	R
28	10.0		21	18.11	...		56	11.4	R
94 <i>35 Persci σ</i>									
Feb. 4	...	3	22	7.24	...	42	25	13.7	M
Dec. 11	...		22	7.03	...		25	14.0	M
16	...		22	6.98	...		25	13.3	M
95 <i>Anon.</i>									
Jan. 17	9.5	3	22	56.32	...	71	40	31.5	M
26	9.5		22	56.48	...		40	32.7	M
Nov. 18	9.0		22	56.22	...		40	32.6	R
Dec. 3	9.2		22	56.33	...		40	32.8	R
4	9.3		22	56.49	...		40	32.7	R
7	9.5		22	56.52	...		40	32.2	R
14	9.5		22	56.35	...		40	31.6	M
96 <i>17 Eridani.</i>									
Dec. 10	...	3	24	39.83	...	95	29	16.5	M
13	...		24	39.81	...		29	15.6	M
97 <i>Lalande 6483.</i>									
Jan. 19	9.5	3	24	52.60	...	71	36	36.9	M
24	9.0		24	52.33	...		36	37.6	M
Nov. 24	9.0		24	52.41	4		36	38.5	R
25	9.0		24	52.38	...		36	38.7	R

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>		
98 <i>ζ Eridani.</i>										
Jan. 27	...	3	25	56.90	...	131	46	32.5	M	
Feb. 7	...		25	57.04	6		46	34.4	M	
99 <i>18 Eridani ϵ</i>										
Jan. 6	...	3	27	16.53	...	99	51	56.2	M	
7	...		27	16.63	...		51	55.7	M	
8	...		27	16.65	...		51	55.5	M	
9	...		27	16.52	...		51	54.9	M	
Dec. 25	...		27	16.55	...		51	53.4	R	
100 <i>R. P. L. 34.</i>										
Dec. 27	...	3	27	21.65	3		3	44	4.6	R
29	...		27	22.22	3			44	5.4	R
101 <i>Lacaille 1164.</i>										
Feb. 3	...	3	29	38.46	...	156	53	46.0	M	
4	...		29	38.34	5		53	45.5	M	
102 <i>Lalande 6656.</i>										
Jan. 3	9.0	3	30	29.85	...	71	47	59.9	M	
103 <i>Lacaille 1188.</i>										
Jan. 10	...	3	33	4.21	...	156	9	47.4	M	
16	6.0		33	4.16	...		9	48.3	M	
26	6.0		33	3.98	...		9	48.8	M	
104 <i>τ Fornacis.</i>										
Jan. 17	6.0	3	33	48.27	...	118	20	11.1	M	
22	...		33	48.14	...		20	11.1	M	
27	6.0		33	48.21	...		20	10.7	M	
105 <i>Radcliffe 1039</i>										
Jan. 19	6.0	3	35	33.25	...	27	2	6.4	M	
24	6.0		35	33.52	...		2	7.1	M	
Feb. 2	6.0		35	33.22	...		2	6.0	M	

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>	
106 <i>40 Persei o</i>																			
Jan. 7	...	3	36	47.74	...	58	5	36.8	M	113 <i>20 Tauri, Maia.</i>									
										Dec. 3	...	3	38	41.24	...	66	0	32.7	R
										28	...		38	41.42	...		0	30.7	R
										31	...		38	41.16	...		0	31.2	M
107 <i>41 Persei v</i>																			
Jan. 23	...	3	37	2.75	...	47	48	4.7	M	114 <i>21 Tauri, k Asterope.</i>									
Feb. 5	...		37	2.63	...		48	5.4	M	Dec. 8	7.0	3	38	45.06	...	65	49	16.6	R
9	...		37	2.86	...		48	5.8	M	25	7.0		38	45.15	...		49	15.8	R
11	...		37	2.76	...		48	4.9	M	29	7.0		38	45.10	...		49	17.8	R
108 <i>δ Fornacis.</i>																			
Feb. 7	5.0	3	37	28.53	...	122	19	21.8	M	115 <i>22 Tauri, l Asterope.</i>									
Dec. 14	5.5		37	28.38	...		19	20.0	M	Dec. 7	7.0	3	38	54.02	...	65	50	52.2	R
15	5.5		37	28.50	...		19	21.1	M	116 <i>23 Tauri, Merope.</i>									
17	5.5		37	28.34	...		19	18.4	M	Dec. 11	...	3	39	12.36	...	66	25	37.3	M
18	...		37	28.37	...		19	21.0	M	13	...		39	12.38	...		25	37.3	M
109 <i>16 Tauri, Celæno.</i>																			
Feb. 10	...	3	37	40.15	...	66	5	22.0	M	117 <i>25 Tauri η, Alcyone.</i>									
Nov. 19	...		37	40.30	...		5	21.1	R	Jan. 21	...	3	40	21.11	...	66	16	2.3	M
24	...		37	40.26	...		5	23.4	R	118 <i>W. B. N. III. 883.</i>									
110 <i>γ Camelopardi.</i>																			
Dec. 27	...	3	37	42.30	...	19	2	21.8	R	Jan. 6	9.2	3	41	3.63	...	71	42	28.8	M
										8	9.2		41	3.48	...		42	32.5	M
111 <i>19 Tauri, Taygeta.</i>																			
Nov. 25	5.0	3	38	3.92	...	65	54	38.1	R	119 <i>Taylor 1304.</i>									
Dec. 4	5.0		38	4.09	...		54	38.9	R	Jan. 13	5.6	3	41	32.33	...	137	44	4.0	M
16	5.0		38	4.01	...		54	38.9	M	20	...		41	32.26	...		44	3.9	M
20	...		38	4.07	...		54	38.1	M	Feb. 3	6.0		41	32.43	...		44	3.8	M
22	5.0		38	3.92	...		54	37.6	R	120 <i>27 Tauri, Atlas.</i>									
112 <i>Radcliffe 1053.</i>																			
Feb. 6	5.5	3	38	32.94	...	24	50	50.0	M	Feb. 4	...	3	42	1.78	...	66	18	53.3	M
12	...		38	32.92	...		50	48.3	M	Nov 25	...		42	1.57	...		18	52.2	R
Dec. 30	5.0		38	32.89	...		50	50.7	M	Dec. 18	...		42	1.54	...		18	52.9	M
										22	...		42	1.64	...		18	53.3	R

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121 <i>28 Tauri, Pleione.</i>						127 <i>Radcliffe 1089.</i>					
Nov. 19	...	3 42 2.89	...	66 13 52.0	R	Jan. 15	5.0	3 46 50.77	...	27 16 53.0	M
24	...	42 2.84	...	13 53.4	R	19	...	46 50.69	...	16 52.7	M
Dec. 4	...	42 2.86	...	13 53.1	R	Feb. 6	6.0	46 50.75	...	16 56.6	M
122 <i>28 Eridani τ^7</i>						128 <i>ν^3 Eridani.</i>					
Jan. 26	...	3 42 29.85	...	114 14 50.2	M	Jan. 23	...	3 49 4.47	...	125 5 17.2	M
Feb. 10	...	42 29.97	...	14 50.6	M	26	...	49 4.59	4	5 17.9	M
13	...	42 30.05	...	14 50.7	M	Feb. 3	...	49 4.76	...	5 17.6	M
Dec. 10	...	42 29.74	...	14 53.1	M	129 <i>45 Persei ϵ</i>					
14	...	42 29.89	...	14 50.6	M	Jan. 13	...	3 49 48.38	...	50 20 19.5	M
123 <i>f^1 Eridani—1st.</i>						21	...	49 48.23	...	20 19.5	M
Jan. 17	...	3 44 9.94	...	127 59 24.2	M	130 <i>34 Eridani γ^1</i>					
27	...	44 9.98	...	59 24.0	M	Dec. 3	...	3 52 25.89	...	103 51 3.9	R
Feb. 2	...	44 9.85	...	59 23.9	M	28	...	52 25.75	...	51 2.6	R
9	...	44 9.94	...	59 24.9	M	29	...	52 25.66	...	51 3.6	R
124 <i>f^2 Eridani.</i>						131 <i>35 Eridani.</i>					
Jan. 12	...	3 44 10.11	...	127 59 16.1	M	Jan. 22	...	3 55 27.28	6	91 53 14.2	M
24	...	44 10.21	...	59 16.9	M	Feb. 2	...	55 27.13	...	53 12.7	M
Feb. 5	...	44 10.00	...	59 17.7	M	132 <i>38 Tauri ν</i>					
14	...	44 10.15	...	59 16.6	M	Feb. 4	...	3 56 46.57	...	84 20 40.9	M
Dec. 3	...	44 10.08	...	59 15.8	R	6	...	56 46.45	...	20 42.8	M
125 <i>Lalande 7131.</i>						9	...	56 46.39	...	20 41.5	M
Jan. 10	9.4	3 45 23.93	...	71 26 34.1	M	133 <i>δ Reticuli.</i>					
126 <i>W Tauri, Var.</i>						Feb. 5	6.0	3 56 50.96	...	151 44 24.6	M
Dec. 15	7.5	3 46 45.57	...	82 35 7.5	M	11	...	56 50.73	...	44 22.6	M
16	7.5	46 45.83	...	35 6.4	M	Nov. 19	5.0	56 50.79	5	44 24.5	R
25	7.8	46 45.82	...	35 4.9	R	Dec. 10	5.0	56 50.83	...	44 25.3	M
27	8.0	46 45.96	...	35 5.6	R	11	5.0	56 50.85	...	44 24.4	M
28	8.0	46 45.74	...	35 4.6	R	134 <i>37 Tauri A^1.</i>					
30	8.0	46 45.76	...	35 9.0	M	Jan. 6	...	3 57 36.12	...	68 14 51.2	M
31	8.0	46 45.86	...	35 8.0	M	7	...	57 36.07	...	14 50.6	M
						8	...	57 36.00	...	14 51.1	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
Jan. 9	...	3	57	36.21	...	68	14	51.6	M	141	...	38	Eridani	o ¹
10	...	57	36.05	14	51.7	M		Dec. 10	...	4	6	0.53	...	97	9	6.4	M
12	...	57	35.96	...	...	14	51.3	M		11	...	6	0.48	...	...	9	4.5	M	
13	...	57	36.08	...	...	14	51.3	M		13	...	6	0.51	...	...	9	3.8	M	
15	...	57	36.06	...	...	14	50.0	M		14	...	6	0.29	...	...	9	7.1	M	
16	...	57	36.07	...	...	14	52.3	M		15	...	6	0.40	...	...	9	6.7	M	
31	...	57	36.09	...	...	14	50.5	M		17	...	6	0.45	...	...	9	5.2	M	
135 47 Persei λ										27	...	6	0.46	...	...	9	5.5	R	
Jan. 3	...	3	57	38.09	...	39	58	33.4	M	142	...	52	Persei	f.	...	...	...	...	...
23	...	57	38.90	...	...	58	34.5	M		Jan. 13	...	4	6	43.41	...	49	49	17.8	M
27	...	57	38.80	...	...	58	33.5	M		143	...	39	Eridani	A.	...	...	...	...	...
136 Lacaille 1339.										Jan. 15	...	4	8	40.98	...	100	33	16.9	M
Dec. 25	8.0	3	59	7.33	...	134	43	14.4	R	19	...	8	41.04	...	...	33	17.1	M	
27	8.0	59	7.68	...	...	43	16.2	R		21	...	8	41.10	...	...	33	18.5	M	
28	8.0	59	7.47	...	...	43	15.4	R		144	...	40	Eridani	o ²	...	...	...	...	...
29	8.0	59	7.41	...	...	43	15.3	R		Jan. 6	5.0	4	9	44.78	...	97	50	26.3	M
30	8.0	59	7.44	...	...	43	16.9	M		7	5.0	9	44.97	...	...	50	27.4	M	
137 γ Reticuli.										17	5.0	9	44.96	...	...	50	26.7	M	
Feb. 7	5.0	3	59	9.74	...	152	29	41.2	M	Feb. 2	5.0	9	45.04	...	...	50	25.1	M	
12	...	59	9.80	...	...	29	41.5	M		145	...	a	Horologii.	...	...	...	...	...	...
Dec. 13	...	59	9.73	...	3	29	44.0	M		Jan. 20	...	4	10	1.31	...	132	35	29.2	M
14	5.0	59	9.76	...	...	29	43.6	M		Feb. 3	5.0	10	1.56	...	...	35	27.8	M	
138 ι Reticuli.										146	...	54	Tauri	γ	...	...	...	...	...
Feb. 3	...	3	59	21.65	...	151	24	57.3	M	Jan. 8	...	4	12	57.97	...	74	39	50.3	M
13	...	59	21.49	...	...	24	54.6	M		9	...	12	57.88	...	...	39	50.6	M	
14	...	59	21.46	...	...	24	55.8	M		10	...	12	57.99	...	...	39	48.0	M	
139 R. P. L. 35.										12	...	12	57.85	...	...	39	47.8	M	
Dec. 22	...	3	59	23.55	3	4	45	47.8	R	13	...	12	57.88	...	...	39	47.7	M	
140 48 Persei c.										15	...	12	58.04	...	...	39	50.1	M	
Jan. 17	...	3	59	57.17	...	42	36	34.8	M	16	...	12	57.99	...	...	39	51.2	M	
21	...	59	56.95	...	...	36	33.5	M		Feb. 4	...	12	57.95	...	...	39	49.3	M	
24	...	59	57.24	36	33.7	M		5	...	12	57.96	39	50.6	M	
										6	...	12	58.03	39	50.9	M	
										7	...	12	57.86	39	50.4	M	
										9	...	12	58.06	39	48.7	M	

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Feb. 10	...	4 12 58.02	...	74 39 50.2	M	153 <i>51 Eridani ε.</i>					
11	...	12 57.91	...	39 48.7	M	Jan. 17	...	4 31 33.90	...	92 42 54.6	M
Dec. 15	...	12 57.71	...	39 49.8	M	22	...	31 33.81	...	42 53.0	M
16	...	12 58.11	...	39 49.2	M	23	...	31 33.89	...	42 51.6	M
18	...	12 57.71	...	39 49.7	M	154 <i>Anon.</i>					
147 <i>73 Tauri π</i>						Feb. 17	10.0	4 34 23.79	...	130 40 45.5	M
Jan. 7	...	4 19 49.52	...	75 33 32.4	M	155 <i>α Cæli.</i>					
8	...	19 49.56	...	33 31.4	M	Jan. 3	...	4 36 41.76	...	132 5 36.1	M
148 <i>74 Tauri ε</i>						156 <i>4 Camelopardi.</i>					
Jan. 3	...	4 21 36.54	...	71 5 12.2	M	Jan. 7	...	4 38 0.49 ⁵	...	33 27 28.2	M
17	...	21 36.72	...	5 15.6	M	8	...	38 0.53 ⁴⁷	...	27 28.7	M
19	...	21 36.69	...	5 12.9	M	157 <i>57 Eridani μ</i>					
Dec. 16	...	21 36.55	...	5 16.2	M	Jan. 10	...	4 39 30.07	...	93 28 32.7	M
17	...	21 36.48	...	5 12.9	M	12	...	39 30.30	...	28 33.4	M
18	...	21 36.55	...	5 15.2	M	13	...	39 30.17	...	28 31.8	M
22	...	21 36.56	...	5 15.1	R	15	...	39 30.04	...	28 33.5	M
149 <i>47 Eridani.</i>						16	...	39 30.09	...	28 35.2	M
Jan. 6	5.0	4 28 24.65	...	98 28 59.8	M	Dec. 31	...	39 30.24	...	28 33.6	M
9	5.0	28 24.70	...	28 38.2	M	158 <i>λ Cæli.</i>					
12	5.5	28 24.66	...	29 0.5	M	Jan. 17	5.6	4 39 47.79	...	131 17 20.6	M
15	5.5	28 24.69	...	28 58.7	M	19	6.0	39 47.71	...	17 20.5	M
150 <i>87 Tauri α, Aldebaran.</i>						159 <i>ζ Cæli.</i>					
Jan. 20	...	4 29 2.03	...	73 44 2.4	M	Jan. 22	6.0	4 41 52.30	...	129 34 29.6	M
24	...	29 2.19	...	44 2.1	M	24	6.0	41 52.20	...	34 27.1	M
31	...	29 2.04	...	44 1.3	M	Feb. 2	...	41 52.01	5	34 25.5	M
Feb. 2	...	29 2.06	...	43 59.8	M	4	6.0	41 52.23	...	34 27.1	M
151 <i>88 Tauri δ.</i>						160 <i>9 Camelopardi α</i>					
Jan. 8	...	4 29 3.59	...	80 5 14.5	M	Jan. 21	...	4 42 7.53	...	33 51 45.7	M
10	...	29 3.81	...	5 12.7	M	23	...	42 7.64	...	51 48.5	M
13	...	29 3.68	...	5 13.2	M	Feb. 3	...	42 7.81	...	51 48.2	M
152 <i>90 Tauri ε¹.</i>						7	...	42 7.78	...	51 50.0	M
Jan. 16	...	4 31 27.02	...	77 43 54.1	M	9	...	42 7.68	...	51 49.6	M
19	...	31 26.93	...	43 52.8	M						
21	...	31 26.79	...	43 52.0	M						

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
161 1 Orionis π^1										168 8 Orionis π^5									
Feb. 5	...	4	43	19.59	...	38	14	59.9	M	Jan. 19	...	4	48	0.05	...	87	45	25.0	M
10	...		43	19.55	...		14	58.8	M	Feb. 24	...		48	0.16	...		45	25.0	M
12	...		43	19.65	...		14	57.5	M	27	...		48	0.28	...		45	26.3	M
Mar. 2	...		43	19.64	...		14	59.9	R	Mar. 2	...		48	0.05	...		45	26.6	R
3	...		43	19.74	...		14	59.5	R	3	...		48	0.13	...		45	26.3	R
162 2 Orionis π^2										169 ι^1 Pictoris.									
Jan. 6	...	4	44	4.27	...	81	18	22.6	M	Feb. 7	...	4	48	14.87	...	143	40	1.1	M
										28	...		48	14.89	...		39	57.9	M
163 3 Orionis π^3										170 9 Orionis σ^2									
Feb. 6	...	4	44	48.37	...	84	36	6.9	M	Jan. 12	...	4	49	37.33	...	76	40	36.9	M
11	...		44	49.01	...		36	3.6	M	15	...		49	37.50	...		40	36.1	M
13	...		44	49.05	...		36	3.8	M										
164 4 Orionis σ^1										171 R Eridani, Var.									
Feb. 14	...	4	45	44.89	...	75	57	3.1	M	Dec. 18	5.5	4	49	55.14	...	106	36	46.9	M
16	...		45	44.62	...		57	1.6	M	25	5.6		49	55.34	...		36	44.4	R
										27	6.0		49	55.28	...		36	47.0	R
										28	6.2		49	55.14	...		36	46.9	R
										29	6.4		49	55.18	...		36	46.0	R
										30	6.5		49	55.26	...		36	48.4	M
										31	6.5		49	55.39	...		36	47.8	M
165 ν Caeli.										172 A. Aurigae									
Jan. 9	5.6	4	46	21.05	...	181	31	41.9	M										
Feb. 17	...		46	22.01	...		31	45.8	M										

53.25
0.06
0.11
0.17
0.33

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
175 63 Eridani.						182 10 Aurigæ η					
Jan. 20	...	4 54 9.45	...	100 26 23.4	M	Feb. 7	...	4 58 6.07	...	48 55 46.4	M
Feb. 6	...	54 9.59	...	26 26.5	M	18	...	58 6.20	...	55 47.3	M
176 S Eridani, Var.						21	...	58 6.15	...	55 46.6	M
Dec. 25	5.0	4 54 21.09	...	102 42 53.2	R	Dec. 30	...	58 6.01 ³	...	55 48.1	M
27	5.4	54 21.23	...	42 55.7	R	31	...	58 6.06 ⁴	...	55 48.3	M
177 65 Eridani ψ						183 η^1 Pictoris.					
Jan. 21	...	4 55 37.13	...	97 21 3.9	M	Jan. 9	5.6	4 59 40.32 ⁴⁰	...	139 19 16.4	M
Feb. 10	...	55 37.13	...	21 5.4	M	19	6.0	59 40.58	...	19 14.0	M
13	...	55 37.27	...	21 3.5	M	184 Taylor 1836.					
178 11 Camelopardi.						Jan. 12	7.0	5 0 9.27 ³³	...	139 39 39.6	M
Feb. 5	...	4 55 42.70	...	31 11 52.6	M	16	7.0	0 9.36	...	39 39.5	M
9	...	55 42.82	...	11 51.4	M	24	7.0	0 9.28	...	39 37.9	M
12	...	55 42.93	...	11 51.6	M	185 η^2 Pictoris.					
179 Taylor 1796.						Jan. 3	5.6	5 1 51.64 ⁹	...	139 45 27.2	M
Feb. 14	5.5	4 56 13.13	...	110 13 38.1	M	10	5.6	1 51.46 ⁸⁷	...	45 25.5	M
16	5.5	56 13.33	...	13 38.9	M	186 Radcliffe 1402.					
23	5.5	56 13.17	...	13 40.1	M	Feb. 3	...	5 2 48.72	...	10 54 39.7	M
Dec. 28	5.6	56 13.28 ¹⁷	...	13 38.0	R	6	...	2 48.59	...	54 44.3	M
29	5.6	56 13.02 ²	...	13 38.6	R	24	...	2 48.81	...	54 39.4	M
180 Taylor 1806.						Mar. 3	...	2 48.53	...	54 40.3	R
Jan. 6	5.0	4 57 16.81 ⁶	...	116 26 46.6	M	4	...	2 48.51	...	54 42.1	R
8	5.0	57 16.84 ³	...	26 45.5	M	187 ζ Doradus.					
Feb. 11	5.5	57 16.85	...	26 47.0	M	Jan. 23	5.0	5 3 27.35	...	147 38 13.0	M
181 9 Aurigæ.						188 11 Aurigæ μ					
Feb. 17	...	4 57 16.92	...	38 33 50.2	M	Jan. 13	...	5 5 13.00	...	51 39 35.6	M
20	...	57 17.03	...	33 50.7	M	17	...	5 18.11	...	39 33.6	M
25	...	57 16.77	...	33 48.9	M	21	...	5 12.95	...	39 33.8	M
Mar. 2	...	57 16.95	...	33 51.4	R	189 3 Leporis ι					
4	...	57 16.86 ¹³	...	33 51.1	R	Feb. 2	...	5. 6 41.90	...	102 0 52.5	M
						5	...	6 41.76	...	0 54.5	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
190. <i>17 Orionis ρ</i>									
Feb. 9	...	5	7	1'01	...	87	16	59'0	M
191 <i>5 Leporis μ</i>									
Feb. 10	...	5	7	32'41	...	106	20	54'8	M
12	...	7	32'48	...	...	20	55'3	M	
192 <i>14 Aurigæ—2nd.</i>									
Feb. 13	...	5	7	35'45	...	57	27	10'3	M
14	...	7	35'52	...	...	27	10'5	M	
16	...	7	35'52	...	...	27	11'7	M	
Mar. 2	...	7	35'52	...	...	27	11'8	R	
3	...	7	35'57	...	...	27	11'5	R	
193 <i>4 Leporis κ</i>									
Feb. 7	5'0	5	7	41'34	...	103	5	5'4	M
11	5'0	7	41'61	...	...	5	4'9	M	
194 <i>19 Orionis β, Rigel.</i>									
Jan. 20	...	5	8	46'26	...	98	20	29'8	M
22	...	8	46'33	...	...	20	28'7	M	
195 <i>15 Aurigæ λ</i>									
Jan. 9	...	5	10	41'58	...	50	0	33'5	M
196 <i>7 Leporis ν</i>									
Jan. 12	5'6	5	14	24'91	...	102	26	22'9	M
15	5'6	14	24'86	...	...	26	22'8	M	
197 <i>23 Orionis m.</i>									
Jan. 13	...	5	16	31'69	...	86	34	22'4	M
16	...	16	31'71	...	...	34	23'3	M	
17	...	16	31'78	...	...	34	22'0	M	
198 <i>Bradley 757.</i>									
Jan. 23	5'6	5	17	45'28	...	90	58	51'1	M
Feb. 2	5'6	17	45'22	...	...	58	50'1	M	
4	...	17	45'44	...	...	58	51'2	M	
6	6'0	17	45'45	...	...	58	51'7	M	
18	6'0	17	45'28	...	...	58	49'8	M	
199 <i>29 Orionis ε.</i>									
Jan. 6	...	5	18	9'85	...	97	55	10'0	M
19	...	18	9'95	...	...	55	7'4	M	
21	...	18	10'01	...	...	55	11'0	M	
200 <i>28 Orionis η</i>									
Jan. 24	...	5	18	26'54	...	92	30	34'2	M
Feb. 3	...	18	26'85	...	...	30	33'5	M	
201 <i>112 Tauri β</i>									
Jan. 26	...	5	18	42'48	...	61	29	44'5	M
27	...	18	42'40	...	...	29	45'2	M	
Feb. 21	...	18	42'50	...	...	29	45'3	M	
28	...	18	42'36	...	...	29	44'4	M	
202 <i>24 Aurigæ φ</i>									
Jan. 8	...	5	19	41'53	...	55	37	39'4	M
Feb. 5	...	19	41'37	...	...	37	40'5	M	
9	...	19	41'59	...	...	37	40'1	M	
203 <i>31 Orionis, Var.</i>									
Jan. 3	5'0	5	23	38'41	...	91	11	17'7	M
12	5'0	23	38'47	...	...	11	19'5	M	
Dec. 31	5'5	23	38'46	...	...	11	18'2	M	
204 <i>Radcliffe 1485.</i>									
Feb. 7	6'5	5	23	41'21	...	15	2	21'9	M
12	6'5	23	41'13	2	22'8	M	
13	7'0	23	41'31	2	20'8	M	
Mar. 1	5'2	23	41'15	2	20'9	R	
2	5'2	23	41'14	2	21'7	R	

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205 <i>R. P. L. 40.</i>						213 <i>42 Orionis ε.</i>					
Jan. 7	...	5 23 41 ^{0.47} 46	3	4 52 8.8	M	Feb. 3	...	5 29 28.00	...	94 55 6.6	M
15	...	23 40.94	3	52 7.0	M						
22	...	23 41.91	3	52 8.3	M						
<i>R. P. L. 40—s.p.</i>						214 <i>Lacaille 1922.</i>					
Aug. 25	...	5 23 41.95	3	4 52 10.5	M	Feb. 4	6.5	5 29 32.67	...	154 1 3.4	M
						6	6.5	29 32.56	...	1 2.4	M
						9	6.5	29 32.79	...	1 3.2	M
						Mar. 2	5.6	29 32.66	...	1 3.9	R
						3	5.7	29 32.74	...	1 3.2	R
206 <i>32 Orionis A.</i>						215 <i>46 Orionis ε</i>					
Jan. 17	...	5 24 21.81	...	84 8 38.9	M	Jan. 20	...	5 30 7.49	...	91 16 48.7	M
						23	...	30 7.46	...	16 47.1	M
						31	...	30 7.50	...	16 47.2	M
						Feb. 27	...	30 7.50	...	16 47.7	M
207 <i>25 Aurigæ χ</i>						216 <i>26 Aurigæ.</i>					
Jan. 10	...	5 24 55.22	...	57 53 53.8	M	Jan. 6	...	5 30 55.69	...	50 34 52.0	M
24	...	24 55.11	...	53 53.1	M						
208 <i>34 Orionis δ, Var. 1.</i>						217 <i>53 Orionis κ</i>					
Dec. 10	...	5 25 52.58	...	90 23 23.4	M	Jan. 17	...	5 42 3.72	...	99 42 48.7	M
30	...	25 52.62	...	23 21.9	M	19	...	42 3.80	...	42 46.7	M
						21	...	42 3.93	...	42 48.3	M
						22	...	42 3.76	...	42 49.6	M
						23	...	42 3.88	...	42 47.4	M
						24	...	42 3.73	...	42 48.6	M
						26	...	42 3.94	...	42 48.2	M
						Feb. 2	...	42 3.88	...	42 48.0	M
						3	...	42 3.89	...	42 49.5	M
						4	...	42 3.91	...	42 48.8	M
						5	...	42 3.69	...	42 48.9	M
						6	...	42 3.91	...	42 49.9	M
						7	...	42 3.81	...	42 49.7	M
						9	...	42 3.82	...	42 48.7	M
						10	...	42 3.78	...	42 48.1	M
						Mar. 1	...	42 3.87	...	42 47.9	R
210 <i>36 Orionis υ</i>						218 <i>Taylor 2170.</i>					
Jan. 13	5.0	5 26 7.70	...	97 23 27.5	M	Jan. 3	5.0	5 43 7 ^{0.74} 09	...	136 38 30.8	M
19	5.0	26 7.69	...	23 26.5	M						
21	6.0	26 7.62	...	23 28.3	M						
211 <i>11 Leporis α</i>											
Jan. 26	...	5 27 26.17	...	107 54 33.0	M						
Feb. 24	...	27 26.31	...	54 34.6	M						
25	...	27 26.20	...	54 33.4	M						
26	...	27 26.12	...	54 33.4	M						
212 <i>Lacaille 1895.</i>											
Feb. 2	...	5 28 48.98	...	128 35 55.0	M						

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219 <i>136 Tauri.</i>						228 <i>Anon.</i>					
Jan. 6	...	5 45 ^{6.72} 47.00	...	62 25 3.9	M	Feb. 17	...	5 55 23.14	...	121 30 56.5	M
220 <i>Taylor 2214.</i>						229 <i>3 Monocerotis.</i>					
Jan. 7	...	5 48 ^{6.2} 10.50	...	142 8 12.7	M	Jan. 8	...	5 56 11.83	*	100 36 1.8	M
221 <i>58 Crionis, a Var 2, Betelgeux.</i>						230 <i>R. P. L. 43.</i>					
Jan. 21	...	5 48 40.46	...	82 36 59.5	M	Mar. 4	...	5 59 ^{9.33} 8.22	3	3 14 13.2	R
27	...	48 40.46	...	37 1.9	M	231 <i>37 Camelopardi.</i>					
222 <i>33 Aurigæ δ</i>						Jan. 6	...	5 59 ^{5.7} 23.67	...	31 3 5.5	M
Jan. 8	...	5 49 ^{8.7} 38.95	...	35 43 38.5	M	7	...	59 23.76	...	3 5.3	M
10	...	49 38.87	...	43 37.4	M	10	...	59 23.78	...	3 5.0	M
223 <i>Taylor 2232.</i>						232 <i>17 Leporis.</i>					
Jan. 12	5.6	5 50 ^{4.1} 19.54	...	147 10 45.0	M	Jan. 17	...	5 59 37.92	...	106 28 38.6	M
15	...	50 19.74	...	10 42.1	M	23	...	59 37.90	...	28 37.1	M
19	5.6	50 19.56	...	10 41.2	M	Feb. 3	...	59 37.93	...	28 38.7	M
224 <i>35 Aurigæ π</i>						4	...	59 38.14	...	28 39.6	M
Jan. 9	...	5 51 ^{4.5} 1.50	...	44 4 34.3	M	7	...	59 38.10	...	28 39.7	M
225 <i>δ² Columbæ.</i>						233 <i>67 Orionis ν</i>					
Jan. 13	5.6	5 51 ⁵ 22.32	...	127 8 20.7	M	Jan. 22	...	6 0 43.20	...	75 13 4.3	M
16	5.6	51 22.46	...	8 21.5	M	Feb. 20	...	0 43.10	...	13 6.0	M
226 <i>37 Aurigæ θ</i>						Mar. 1	...	0 43.16	...	13 5.8	R
Feb. 3	...	5 51 32.17	...	52 47 48.8	M	3	...	0 43.19	...	13 4.9	R
6	...	51 32.25	...	47 53.3	M	234 <i>Taylor 2315.</i>					
9	...	51 32.11	...	47 50.4	M	Jan. 9	5.6	6 1 ¹⁵ 1.00	...	135 2 10.4	M
11	...	51 31.99	...	47 49.1	M	235 <i>ρ² Columbæ.</i>					
Mar. 3	...	51 31.98	...	47 49.1	R	Jan. 15	...	6 5 2.77	...	134 20 10.9	M
227 <i>Lacaille 2106.</i>						236 <i>Radcliffe 1664.</i>					
Jan. 22	5.0	5 53 11.24	...	153 7 39.6	M	Feb. 5	...	6 5 36.98	...	20 38 28.5	M
23	5.0	53 11.20	...	7 36.2	M	9	...	5 37.11	...	38 28.1	M
						11	...	5 37.00	...	38 27.7	M
						Mar. 2	...	5 37.00	...	38 28.2	R
						4	...	5 37.18	...	38 29.0	R

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237 <i>Brisbane 1172.</i>						244 <i>Taylor 2458.</i>					
Jan. 19	6.0	6 5 57.79	5	152 8 1.6	M	Jan. 7	...	6 16 15.88 ¹⁶	...	124 5 27.7	M
21	6.0	5 57.56	...	8 2.3	M	245 <i>Taylor 2578.</i>					
24	6.0	5 57.70	...	8 4.8	M	Jan. 6	5.6	6 30 8.87 ⁴⁵	...	122 37 21.6	M
238 <i>B. F. 861.</i>						9	5.6	30 8.39 ⁴⁴	...	37 19.8	M
Jan. 16	...	6 6 1.49	...	96 31 27.6	M	246 <i>24 Geminorum γ</i>					
239 <i>1 Lyncis.</i>						Feb. 2	...	6 30 46.81	...	73 30 0.5	M
Feb. 4	...	6 6 50.87	...	28 26 54.2	M	23	...	30 46.76	...	30 1.0	M
10	...	6 50.82	...	26 53.9	M	Mar. 4	...	30 46.81	...	30 3.5	R
16	...	6 50.99	...	26 52.6	M	17	...	30 46.81	...	30 2.0	T
Mar. 1	...	6 50.85	...	26 53.5	R	247 <i>Taylor 2604.</i>					
3	...	6 50.74	...	26 53.8	R	Jan. 10	5.0	6 32 19.08 ^{50.55}	...	142 52 40.9	M
240 <i>7 Geminorum η</i>						12	5.0	32 20.08 ⁴⁹	...	52 42.4	M
Jan. 17	...	6 7 38.00	...	67 27 36.4	M	15	5.0	32 20.12	...	52 39.4	N
Feb. 3	...	7 37.99	...	27 34.1	M	22	5.0	32 19.88	...	52 41.4	M
7	...	7 38.13	...	27 35.8	M	248 <i>Taylor 2607.</i>					
13	...	7 37.89	...	27 34.4	M	Jan. 13	5.6	6 33 4.46	...	126 53 20.1	M
14	...	7 37.97	...	27 33.7	M	16	5.6	33 4.42	...	53 22.4	M
20	...	7 38.09	...	27 36.3	M	249 <i>55 Aurigæ ψ⁴</i>					
23	...	7 38.09	...	27 37.2	M	Jan. 17	...	6 34 20.79	...	45 21 41.9	M
24	...	7 38.05	...	27 36.9	M	19	...	34 20.90	...	21 43.1	M
26	...	7 38.14	...	27 35.1	M	250 <i>31 Geminorum ξ</i>					
27	...	7 38.01	...	27 34.0	M	Feb. 9	...	6 38 83.16	...	76 58 33.5	M
28	...	7 38.02	...	27 35.0	M	10	...	38 33.22	...	58 34.5	M
241 <i>2 Lyncis.</i>						11	...	38 33.37	...	58 35.2	M
Jan. 3	...	6 9 1.97 ²	...	30 56 54.6	M	12	...	38 33.25	...	58 35.2	M
242 <i>74 Orionis κ².</i>						16	...	38 33.23	...	58 35.2	M
Jan. 6	...	6 9 42.15	...	77 41 46.0	M	24	...	38 33.19	...	58 33.8	M
243 <i>13 Geminorum μ</i>						25	...	38 33.27	...	58 33.7	M
Jan. 19	...	6 15 41.98	...	67 25 35.8	M	26	...	38 33.27	...	58 35.0	M
Feb. 21	...	15 42.13	...	25 33.6	M	28	...	38 33.20	...	58 33.3	M
Mar. 2	...	15 42.07	...	25 36.8	R	Mar. 2	...	38 33.23	...	58 36.4	R
4	...	15 42.00	...	25 36.9	R	19	...	38 33.38	...	58 33.3	T

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		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
251		43 Camelopardi.				Feb. 14	...	6 48 36.89	...	101 53 20.0	M
Feb. 4	...	6 40 45.57	...	20 58 29.5	M	16	...	48 36.84	...	53 20.1	M
6	...	40 45.63	...	58 38.9	M	17	...	48 36.90	...	53 21.3	M
252		Taylor 2672.				18	...	48 36.88	...	53 20.0	M
Feb. 13	8.0	6 40 48.16	...	110 38 57.6	M	25	...	48 36.91	...	53 19.2	M
18	8.0	40 48.31	...	38 57.3	M	27	...	48 36.78	...	53 20.3	M
20	...	40 48.12	...	38 56.5	M	28	...	48 36.92	...	53 21.0	M
23	7.8	40 48.11	...	38 58.2	M	Mar. 6	...	48 36.90	...	53 21.0	R
253		Radcliffe 1813.				24	...	48 36.78	...	53 19.0	T
Feb. 5	...	6 42 32.51	...	12 52 28.0	M	259		19 Canis Majoris.			
...	...	42 32.30	...	52 27.6	M	Jan. 17	...	6 50 25.28	...	109 59 4.8	M
254		51 Cephei (Hev.)				19	...	50 25.17	...	59 2.5	M
Mar. 5	...	6 43 46.27	3	2 46 13.8	R	260		23 Canis Majoris γ			
255		Lalande 13199.				Jan. 23	...	6 58 19.74	...	105 27 25.5	M
Feb. 3	8.0	6 45 0.69	...	80 25 10.2	M	Feb. 21	...	58 19.69	...	27 26.8	M
9	8.0	45 0.47	...	25 10.5	M	Mar. 5	...	58 19.79	...	27 26.4	R
21	8.0	45 0.74	...	25 9.8	M	261		Taylor 2845.			
Mar. 1	7.8	45 0.78	...	25 9.7	R	Jan. 10	5.6	7 0 16.66	...	133 26 29.5	M
3	8.0	45 0.77	...	25 10.4	R	12	5.6	0 16.56	...	26 31.2	M
256		h¹ Canis Majoris.				262		Taylor 2849.			
Jan. 12	5.6	6 45 51.12	...	121 34 0.1	M	Jan. 13	5.6	7 0 46.67	...	139 24 31.0	M
15	5.6	45 51.26	...	33 58.5	M	15	5.6	0 46.48	...	24 30.3	M
257		15 Lynceis.				17	5.6	0 46.56	...	24 28.9	M
Jan. 10	...	6 46 52.72	...	31 25 21.9	M	263		Taylor 2876.			
13	...	46 52.76	...	25 21.6	M	Feb. 18	6.0	7 4 46.37	...	115 2 16.6	M
16	...	46 52.69	...	25 28.8	M	20	6.0	4 46.31	...	2 16.7	M
258		14 Canis Majoris θ				21	6.0	4 46.22	...	2 18.2	M
Feb. 4	...	6 48 36.76	...	101 53 21.3	M	264		18 Lynceis.			
6	...	48 36.70	...	53 22.5	M	Jan. 16	...	7 5 25.60	...	30 9 8.1	M
11	...	48 36.76	...	53 19.8	M	19	...	5 25.82	...	9 4.6	M
12	...	48 36.74	...	53 19.4	M	21	...	5 25.66	...	9 5.2	M
13	...	48 36.84	...	53 21.8	M						

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
265 <i>Radcliffe 1887.</i>						273 <i>66 Aurigæ.</i>					
July 17	...	7 5 44.48	4	7 21 50.5	M	Jan. 16	...	7 15 49.76	...	49 5 55.0	M
Aug. 11	...	5 45.13	7	21 49.3	M	Feb. 10	...	15 49.48	...	5 54.7	M
Sep. 23	...	5 44.52	3	21 49.4	R	21	...	15 49.70	...	5 54.0	M
266 <i>Radcliffe 1917.</i>						274 <i>Taylor 3029.</i>					
Jan. 10	...	7 9 24.69	...	40 19 24.6	M	Feb. 18	6.0	7 18 0.00	...	146 4 13.7	M
23	...	9 24.72	...	19 23.8	M	20	6.0	17 59.96	...	4 14.4	M
Feb. 3	...	9 24.74	...	19 23.1	M	23	6.0	17 59.77	5	4 14.6	M
5	...	9 24.56	...	19 25.1	M	Mar. 2	6.0	17 59.89	...	4 13.7	R
267 <i>64 Aurigæ.</i>						3	5.6	17 59.97	...	4 12.6	R
Jan. 12	...	7 9 41.81	...	48 54 18.9	M	275 <i>Radcliffe 1949.</i>					
15	...	9 41.43	...	54 18.9	M	Jan. 17	...	7 18 22.54	...	21 17 30.7	M
24	...	9 41.23	...	54 21.4	M	23	...	18 22.76	...	17 30.5	M
Feb. 4	...	9 41.45	...	54 20.6	M	24	...	18 22.67	...	17 30.6	M
268 <i>55 Geminorum δ</i>						276 <i>γ Puppis.</i>					
Mar. 17	...	7 12 57.30	...	67 47 51.9	T	Jan. 10	5.6	7 18 25.42	...	131 41 36.5	M
269 <i>19 Lynceis—2nd.</i>						12	5.6	18 25.20	...	41 34.8	M
Jan. 13	...	7 13 4.49	...	34 29 42.2	M	15	5.6	18 25.40	...	41 35.9	M
21	...	13 4.25	...	29 40.4	M	Feb. 4	6.0	18 25.48	...	41 37.3	M
Feb. 6	...	13 4.15	...	29 44.1	M	277 <i>3 Canis Minoris β</i>					
270 <i>Taylor 2975.</i>						Feb. 3	...	7 20 38.55	...	81 28 10.7	M
Feb. 7	...	7 14 2.34	...	126 31 0.2	M	5	...	20 38.70	...	28 12.8	M
271 <i>Taylor 2984.</i>						12	...	20 38.67	...	28 10.1	M
Feb. 9	6.0	7 14 21.40	...	133 46 9.2	M	13	...	20 38.70	...	28 11.5	M
12	6.0	14 21.34	...	46 6.7	M	14	...	20 38.57	...	28 10.3	M
14	6.0	14 21.42	...	46 6.2	M	16	...	20 38.61	...	28 10.7	M
272 <i>Taylor 2980.</i>						17	...	20 38.59	...	28 10.9	M
Feb. 11	5.5	7 14 22.09	...	126 31 27.4	M	Mar. 1	...	20 38.61	...	28 10.1	R
13	5.5	14 21.92	...	31 26.0	M	6	...	20 38.56	...	28 11.4	R
16	5.5	14 22.19	...	31 26.1	M	19	...	20 38.63	...	28 10.1	T
						24	...	20 38.49	...	28 10.5	T
						Apl. 3	...	20 38.70	...	28 10.2	T
						7	...	20 38.45	...	28 8.9	T

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Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
278 <i>10 Canis Minoris, a Procyon.</i>										285 <i>Taylor 3275.</i>									
Jan. 24	...	7	38	1.31	...	84	28	5.3	M	Jan. 22	5.6	7	44	46.00	...	186	46	32.3	M
Mar. 17	...	33	1.24	...	...	28	4.1	T		Feb. 4	5.6	44	46.12	...	...	46	35.7	M	
24	...	33	0.97	...	...	28	2.1	T		5	6.0	44	45.99	...	...	46	34.9	M	
Apl. 3	...	33	1.04	...	...	28	4.4	T		286 <i>R. P. L. 49.</i>									
279 <i>75 Geminorum σ</i>										Feb. 6	...	7	48	0.42	3	5	36	8.3	M
Jan. 15	...	7	35	48.52	...	60	49	39.2	M	12	...	48	0.53	3	...	36	4.2	M	
16	...	35	48.60	...	...	49	40.4	M		18	...	47	59.31	3	...	36	5.1	M	
21	...	35	48.77	...	...	49	39.1	M		Mar. 1	...	47	59.76	3	...	36	2.9	R	
280 <i>1 Puppis.</i>										2	...	48	0.06	3	...	36	4.6	R	
Jan. 12	5.6	7	38	41.83	...	118	7	36.6	M	3	...	47	59.94	3	...	36	5.5	R	
22	6.0	38	41.73	...	...	7	37.4	M		Apl. 7	...	47	59.69	7	...	36	2.8	T	
31	6.0	38	41.75	...	...	7	35.7	M		R. P. L. 49—s.p.									
281 <i>Taylor 3209.</i>										Sep. 21	...	7	47	59.69	3	5	36	6.2	R
Jan. 13	5.6	7	39	14.38 ⁴²	...	134	52	11.8	M	29	...	48	0.18	2	...	36	7.0	R	
23	6.0	39	14.30	...	...	52	11.6	M		30	...	48	0.32	3	...	36	3.9	R	
Feb. 2	5.6	39	14.31	...	...	52	12.7	M		Oct. 2	...	47	59.69	3	...	36	4.1	M	
5	6.0	39	14.29	...	...	52	11.3	M		4	...	48	0.65	3	...	36	5.7	M	
282 <i>Taylor 3265.</i>										287 <i>6 Cancri.</i>									
Jan. 16	5.6	7	43	54.06	...	136	18	43.3	M	Jan. 27	...	7	56	8.87	...	61	52	14.9	M
21	6.0	43	53.95	...	...	18	42.1	M		Mar. 15	...	56	8.72	...	...	52	14.9	T	
283 <i>7 Argus ξ</i>										Apl. 15	...	56	8.67	...	...	52	14.2	T	
Mar. 4	...	7	44	14.85 ¹	...	114	33	35.9	R	17	...	56	8.74	...	...	52	15.0	T	
22	...	44	14.87	...	...	33	33.4	T		288 <i>Taylor 3399.</i>									
Apl. 3	...	44	14.86 ⁶	...	...	33	31.7	T		Jan. 22	5.6	7	57	53.01	...	143	49	10.0	M
10	...	44	14.59 ⁶	...	...	33	33.4	T		Feb. 4	6.0	57	52.98	...	...	49	9.8	M	
284 <i>6 Puppis.</i>										7	6.0	57	52.88	...	...	49	10.8	M	
Jan. 24	6.0	7	44	15.85	...	106	55	23.9	M	9	6.0	57	52.68	...	...	49	10.9	M	
Feb. 3	5.6	44	15.86	55	26.3	M		289 <i>27 Lyncis.</i>									
										Jan. 21	...	7	59	25.37	...	33	8	57.5	M
										23	...	59	25.39	8	55.8	M	

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290 <i>55 Camelopardi.</i>						Mar. 6	...	8 36 20.36	...	68 6 7.2	R
Jan. 24	...	8 0 50.99	6	21 10 30.6	M	15	...	36 20.23	...	6 4.0	T
Feb. 5	...	0 50.72	...	10 31.9	M	22	...	36 20.29	...	6 3.5	T
6	...	0 50.74	...	10 31.0	M	Apl. 22	...	36 20.40	...	6 2.4	T
						24	...	36 20.36	...	6 5.7	T
291 <i>15 Argus.</i>						296 <i>θ Volantis.</i>					
Apl. 13	...	8 2 26.03	...	113 57 33.3	T	Feb. 20	6.0	8 38 38.04	...	159 57 34.8	M
15	...	2 25.97	...	57 33.0	T	23	6.0	38 37.94	...	57 36.6	M
17	...	2 26.17	...	57 34.1	T						
292 <i>Anon.</i>						297 <i>R. P. L. 60.</i>					
Feb. 20	10.5	8 6 40.30	...	128 42 29.7	M	Feb. 25	...	8 50 3.43	3	5 20 25.6	M
24	...	6 40.33	5	42 29.3	M	Mar. 6	...	50 2.69	3	20 27.8	R
25	...	6 40.54	...	42 30.0	M	Apl. 17	...	50 2.35	3	20 26.1	T
293 <i>17 Cancri β</i>						298 <i>65 Cancri α</i>					
Feb. 17	...	8 10 0.32	...	80 26 44.8	M	Feb. 18	...	8 51 55.33	...	77 40 42.2	M
18	...	10 0.39	...	26 44.4	M	20	...	51 55.41	...	40 42.7	M
Mar. 1	...	10 0.41	...	26 44.1	R	Mar. 5	...	51 55.34	...	40 43.7	R
2	...	10 0.35	...	26 45.1	R	15	...	51 55.35	...	40 43.8	T
3	...	10 0.39	...	26 44.7	R	Apl. 7	...	51 55.24	...	40 42.6	T
5	...	10 0.40	...	26 45.3	R						
15	...	10 0.41	...	26 44.1	T	299 <i>76 Cancri κ</i>					
22	...	10 0.48	...	26 44.9	T	Mar. 1	...	9 1 14.81	...	78 50 59.2	R
Apl. 7	...	10 0.21	...	26 43.0	T	2	...	1 14.82	...	51 0.0	R
10	...	10 0.26	...	26 43.1	T	4	...	1 14.79	...	51 1.2	R
13	...	10 0.39	...	26 43.9	T	6	...	1 14.79	...	51 1.6	R
15	...	10 0.50	...	26 43.3	T	Apl. 13	...	1 14.78	...	50 59.4	T
17	...	10 0.33	...	26 43.8	T	29	...	1 14.79	...	50 59.4	T
24	...	10 0.45	...	26 42.9	T						
294 <i>33 Cancri η</i>						300 <i>Taylor 4022.</i>					
Mar. 15	...	8 25 46.10	...	69 9 12.0	T	Feb. 20	6.5	9 4 48.72	...	162 7 12.0	M
Apr. 22	...	25 46.19	...	9 6.6	T	21	...	4 48.91	5	7 14.7	M
24	...	25 45.99	...	9 6.6	T						
295 <i>43 Cancri γ</i>						301 <i>22 Hydrae θ</i>					
Mar. 2	...	8 36 20.44	...	68 6 5.3	R	Feb. 23	...	9 8 7.16	...	87 10 54.0	M
3	...	36 20.40	...	6 4.3	R	26	...	8 7.25	...	10 53.9	M
4	...	36 20.38	...	6 5.9	R						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
320 <i>91 Leonis ν</i>									
May 11	...	11	30	48.25	...	90	9	39.8	R
12	...		30	48.32	...		9	40.0	R
15	...		30	48.28	...		9	40.9	R
321 <i>94 Leonis β, Dench.</i>									
May 8	...	11	42	56.25	...	74	45	24.2	R
10	...		42	56.29	...		45	24.6	R
13	...		42	56.25	...		45	24.5	R
322 <i>8 Virginis π</i>									
May 6	...	11	54	43.58	...	62	42	56.4	R
8	...		54	43.39	...		42	56.3	R
11	...		54	43.38	...		42	56.5	R
13	...		54	43.39	...		42	57.0	R
14	...		54	43.36	...		42	56.7	R
17	...		54	43.42	...		42	58.0	R
323 <i>R. P. L. 89.</i>									
May 10	...	11	58	41.49	3	3	44	55.6	R
<i>R. P. L. 89—s.p.</i>									
Nov. 9	...	11	58	40.90	3	3	44	54.6	R
13	...		58	43.41	3		44	52.8	R
24	...		58	41.18	3		44	52.4	R
Dec. 3	...		58	41.37	3		44	53.1	R
324 <i>2 Corvi ϵ</i>									
May 12	...	12	3	57.31	...	111	57	7.0	R
14	...		3	57.36	...		57	6.6	R
18	...		3	57.31	...		57	7.9	R
19	...		3	57.30	...		57	8.0	R
325 <i>Lalande 22945.</i>									
May 1	8.0	12	8	51.47	...	90	39	33.1	R
4	8.0		8	51.31	...		39	33.6	R
5	8.2		8	51.46	...		39	32.0	R
6	8.0		8	51.43	...		39	32.2	R
8	8.5		8	51.52	5		39	31.6	R
326 <i>Anon.</i>									
May 13	8.5	12	11	15.19	...	188	15	24.9	R
14	8.8		11	15.23	...		15	25.1	R
15	8.5		11	15.20	...		15	25.7	R
17	8.8		11	15.08	...		15	25.8	R
18	8.6		11	15.11	...		15	25.6	R
327 <i>15 Virginis η</i>									
May 5	...	12	13	45.99	...	89	59	58.2	R
19	...		13	45.98	...		59	58.7	R
20	...		13	45.96	...		59	58.0	R
22	...		13	45.99	...		59	58.9	R
328 <i>R. P. L. 93—s.p.</i>									
Oct. 14	...	12	14	21.76	2	1	38	7.4	M
25	...		14	21.30	2		38	5.5	M
29	...		14	21.74	3		38	7.4	M
Dec. 14	...		14	17.97	3		38	5.7	M
15	...		14	18.56	3		38	7.1	M
329 <i>7 Corvi δ</i>									
May 10	...	12	23	39.44	...	105	50	49.5	R
11	...		23	39.45	...		50	49.4	R
12	...		23	39.50	...		50	48.8	R
15	...		23	39.40	...		50	50.7	R
17	...		23	39.54	...		50	51.4	R
20	...		23	39.50	...		50	48.9	R
24	...		23	39.49	...		50	49.5	R
330 <i>Anon.</i>									
May 1	9.2	12	28	0.59	...	93	47	1.5	R
4	9.2		28	0.62	...		47	0.2	R
5	9.4		28	0.80	...		47	0.3	R
6	9.2		28	0.77	...		47	1.0	R
7	9.3		28	0.71	...		47	0.9	R
331 <i>9 Corvi β</i>									
May 13	...	12	28	5.04	...	112	43	58.2	R
14	...		28	5.08	...		43	57.0	R
18	...		28	5.07	...		43	57.5	R
22	...		28	5.01	...		43	57.4	R
25	...		28	5.01	...		43	58.1	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>		
332 <i>R. P. L. 99—s.p.</i>										340 <i>η Muscæ.</i>										
Dec. 7	...	12	48	15.77	3	5	56	4.9	R	May 10	5.8	13	7	8.30	...	157	15	30.8	R	
333 <i>43 Virginis δ</i>										12	5.5	7	8.24	...	...	15	28.1	R	R
May 17	...	12	49	38.56	...	85	57	0.1	R	15	5.5	7	8.28	...	...	15	30.7	R	R
22	...	49	38.50	...	...	56	59.8	R	18	5.2	7	8.34	...	...	15	31.4	R	R	
24	...	49	38.53	...	...	56	59.0	R	20	5.1	7	8.37	...	...	15	28.7	R	R	
27	...	49	38.61	...	...	56	58.3	R	341 <i>67 Virginis α, Spica.</i>										
334 <i>Lacaille 5335.</i>										May 1	...	13	18	52.29	...	100	32	8.7	R	R
May 18	10.3	12	51	38.60	4	160	11	16.0	R	4	...	18	52.24	...	...	32	3.3	R	R
20	10.3	51	38.40	3	...	11	15.4	R	342 <i>R. P. L. 103.</i>											
335 <i>47 Virginis ε, Vindemiatrix.</i>										May 6	...	13	10	31.17	3	4	37	8.1	R	R
May 15	...	12	56	12.19	...	78	23	42.2	R	343 <i>79 Virginis ζ</i>										
19	...	56	12.18	...	...	28	42.0	R	May 6	...	13	28	34.78	...	80	58	53.8	R	R
25	...	56	12.26	...	...	28	42.6	R	7	...	28	34.76	...	...	58	54.2	R	R	
336 <i>51 Virginis θ</i>										18	...	28	34.70	...	...	58	54.4	R	R
May 24	...	13	3	44.29	...	94	53	51.4	R	344 <i>4 Bootis τ</i>										
27	...	3	44.28	...	...	53	51.5	R	May 10	...	13	41	33.56	...	71	56	39.8	R	R
337 <i>42 Comæ α</i>										12	...	41	33.54	...	...	56	40.2	R	R
May 1	...	13	4	8.91	5	71	50	7.4	R	14	...	41	33.49	...	...	56	39.6	R	R
4	...	4	8.92	...	...	50	7.8	R	17	...	41	33.53	...	...	56	41.0	R	R	
6	...	4	9.00	...	...	50	7.2	R	20	...	41	33.61	...	...	56	39.5	R	R	
338 <i>Taylor 6057.</i>										25	...	41	33.58	...	...	56	39.4	R	R
May 7	5.6	18	4	48.57	...	149	16	53.4	R	345 <i>93 Virginis τ</i>										
11	5.6	4	48.82	...	...	16	58.9	R	May 15	...	13	55	32.48	...	87	52	27.7	R	R
13	5.6	4	48.92	...	...	16	58.4	R	22	...	55	32.39	...	...	52	25.9	R	R	
339 <i>53 Virginis.</i>										27	...	55	32.34	...	...	52	27.5	R	R
May 5	5.3	18	5	40.39	...	105	33	1.3	R	346 <i>11 Draconis α</i>										
8	...	5	40.29	5	...	33	0.8	R	May 11	...	14	1	8.30	...	25	2	59.6	R	R	
14	5.3	5	40.54	...	...	33	0.2	R	12	...	1	8.29	...	...	2	59.0	R	R	
17	5.2	5	40.40	...	...	33	0.0	R	13	...	1	8.22	...	...	2	59.3	R	R	
19	5.2	5	40.35	...	...	32	59.7	R	17	...	1	8.24	...	...	3	0.5	R	R	
									20	...	1	8.12	...	...	2	59.5	R	R	

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
347	<i>R. P. L. 108.</i>					354	<i>9 Libræ α²</i>				
May 19	...	14 1 49.26	3	3 40 3.5	R	May 25	...	14 44 14.47	...	105 32 31.1	R
						29	...	44 14.54	...	32 31.7	R
	<i>R. P. L. 108.—s.p.</i>					June 1	...	44 14.44	...	32 31.1	R
Nov. 19	...	14 1 50.14	3	3 40 5.6	R						
348	<i>22 Bootis f.</i>					355	<i>43 Bootis ψ</i>				
May 10	...	14 20 52.54	...	70 13 56.7	R	May 28	...	14 59 18.15	...	62 35 0.9	R
11	...	20 52.61	...	13 57.3	R	29	...	59 18.21	...	35 1.6	R
12	...	20 52.50	...	13 56.9	R	June 1	...	59 18.26	...	35 1.2	R
13	...	20 52.55	...	13 56.7	R	2	...	59 18.21	...	35 0.7	R
18	...	20 52.51	...	13 57.7	R	7	...	59 18.26	...	35 0.5	R
20	...	20 52.53	...	13 57.9	R	28	...	59 18.29	...	35 1.9	R
24	...	20 52.57	...	14 0.4	R	July 5	...	59 18.33	...	35 0.6	M
349	<i>36 Bootis ε, Mirac.</i>					356	<i>O. A. S. 14246.</i>				
May 27	...	14 39 44.78	...	62 25 7.4	R	May 10	7.0	14 59 31.80	...	111 33 47.1	R
28	...	39 44.83	...	25 7.9	R	12	7.3	59 31.76	...	33 46.7	R
June 1	...	39 44.80	...	25 6.6	R	14	7.1	59 31.74	...	33 45.6	R
3	...	39 44.73	...	25 8.4	R	19	7.0	59 31.78	...	33 48.4	R
28	...	39 44.73	...	25 7.4	R	22	8.2	59 31.57	...	33 48.0	R
350	<i>109 Virginis.</i>					357	<i>Anon.</i>				
May 12	...	14 40 11.03	...	87 36 0.0	R	May 11	9.0	14 59 31.83	...	111 23 13.1	R
19	...	40 10.86	...	36 0.9	R	13	9.2	59 31.95	...	23 12.4	R
22	...	40 10.87	...	36 1.1	R	18	9.2	59 31.94	...	23 12.6	R
						20	9.4	59 31.93	...	23 10.6	R
						24	9.4	59 31.78	...	23 12.5	R
351	<i>55 Hydræ.</i>					358	<i>Taylor 7053.</i>				
May 10	5.6	14 40 23.93	...	115 7 8.4	R	May 15	...	15 2 20.00	...	144 53 14.3	R
13	5.6	40 24.17	...	7 9.1	R						
17	5.7	40 24.04	...	7 10.1	R						
352	<i>56 Hydræ.</i>					359	<i>κ Lupi—1st.</i>				
May 11	...	14 40 44.64	...	115 35 0.8	R	May 17	...	15 3 36.08	...	138 16 48.3	R
14	...	40 44.57	...	35 0.4	R						
353	<i>57 Hydræ.</i>					360	<i>R. P. L. 111—s.p.</i>				
May 15	...	14 40 56.63	...	116 8 30.5	R	Dec. 22	...	15 3 53.88	3	5 35 7.4	R
18	...	40 56.53	...	8 30.4	R	27	...	3 53.84	3	35 6.3	R
20	...	40 56.53	...	8 29.4	R	29	...	3 53.18	3	35 9.8	R
24	...	40 56.57	...	8 31.4	R						

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
361 <i>μ Lupi</i> —1st.									
May 12	5.0	15	10	11.50	...	137	25	53.7	R
13	5.1		10	11.51	...		25	52.0	R
362 27 <i>Libræ</i> β									
June 2	...	15	10	32.99	...	98	56	21.0	R
3	...		10	32.98	...		56	20.8	R
4	...		10	32.98	...		56	20.5	R
5	...		10	32.96	...		56	21.0	R
7	...		10	33.01	...		56	20.4	R
8	...		10	33.06	...		56	18.7	R
17	...		10	33.00	...		56	19.5	R
28	...		10	33.00	...		56	21.1	R
July 5	...		10	33.01	...		56	18.6	M
23	...		10	33.14	...		56	20.2	M
363 <i>ν¹ Lupi</i> .									
May 17	...	15	13	47.41	...	137	29	20.8	R
364 <i>φ¹ Lupi</i> .									
May 18	...	15	14	11.69	...	125	49	23.6	R
19	...		14	11.66	...		49	28.1	R
20	...		14	11.66	...		49	27.8	R
365 <i>S Libræ</i> , Var. 5.									
May 25	10.0	16	14	30.70	...	109	57	14.4	R
27	10.0		14	30.64	...		57	16.2	R
28	10.0		14	30.77	...		57	15.0	R
29	10.0		14	30.82	...		57	15.2	R
366 <i>O. A. S.</i> 14617.									
June 9	9.6	15	24	57.57	...	119	47	4.7	R
17	9.5		24	57.65	...		47	3.7	R
18	9.5		24	57.46	3		47	3.5	R
19	9.5		24	57.64	...		47	2.7	R
July 20	...		24	57.50	...		47	2.8	M
367 5 <i>Coronæ</i> Bor. α, Alpheta.									
June 18	...	15	29	36.38	...	62	52	46.5	R
July 5	...		29	36.36	...		52	47.4	M
15	...		29	36.39	...		52	40.4	M
23	...		29	36.43	...		52	48.1	M
368 <i>ι Lupi</i> .									
June 2	5.0	15	29	58.29	...	132	10	10.9	R
3	...		29	58.21	4		10	18.8	R
4	5.0		29	58.32	...		10	17.7	R
5	5.0		29	58.36	...		10	18.3	R
7	5.3		29	58.40	...		10	18.8	R
369 42 <i>Libræ</i> .									
May 24	5.8	15	33	11.30	...	113	25	36.5	R
27	5.7		33	11.27	...		25	36.5	R
28	5.6		33	11.36	...		25	36.8	R
370 <i>h Lupi</i> .									
May 25	5.6	15	34	50.54	...	127	2	17.2	R
June 2	5.6		34	50.55	...		2	17.7	R
4	5.6		34	50.34	...		2	17.6	R
371 ξ <i>Coronæ Borealis</i> —2nd.									
May 29	...	15	34	51.51	...	52	58	26.2	R
372 15 <i>Ursæ Minoris</i> θ									
June 17	...	15	34	59.98	...	12	15	4.6	R
18	...		34	59.98	...		15	5.9	R
19	...		34	59.78	...		15	4.6	R
373 <i>ψ² Lupi</i> .									
June 1	5.6	15	35	2.45	...	124	19	24.2	R
3	...		35	2.46	...		19	25.4	R
5	5.6		35	2.40	...		19	24.3	R
7	...		35	2.39	...		19	24.7	R
8	5.6		35	2.38	...		19	24.8	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
374 <i>24 Serpentis a</i>									
May 28	...	15	38	21.44	...	83	11	43.9	R
June 9	...		38	21.42	...		11	44.3	R
July 10	...		38	21.47	...		11	41.6	M
17	...		38	21.40	...		11	43.3	M
20	...		38	21.30	...		11	43.8	M
375 <i>κ Trianguli Australis.</i>									
May 25	5.2	15	43	39.31	...	158	14	35.8	R
27	5.2		43	39.40	...		14	35.8	R
28	5.0		43	39.29	...		14	34.9	R
376 <i>37 Serpentis e</i>									
May 29	...	15	44	50.07	...	85	9	34.8	R
June 2	...		44	50.09	...		9	34.4	R
5	...		44	50.06	...		9	33.8	R
7	...		44	50.11	...		9	34.9	R
8	...		44	50.03	...		9	35.8	R
9	...		44	50.05	...		9	35.0	R
18	...		44	50.08	...		9	34.3	R
19	...		44	50.11	...		9	33.4	R
July 10	...		44	50.14	...		9	32.9	M
15	...		44	50.10	...		9	34.0	M
20	...		44	50.08	...		9	34.4	M
27	...		44	50.08	...		9	34.2	R
28	...		44	50.05	...		9	34.2	R
377 <i>R. P. L. 115.</i>									
June 4	...	15	45	53.26	3	4	46	51.2	R
17	...		45	52.99	3		46	50.8	R
378 <i>Radcliffe 3468.</i>									
May 27	5.2	15	49	28.83	...	33	49	4.5	R
28	5.1		49	28.82	...		49	6.0	R
29	5.1		49	28.83	...		49	7.3	R
June 1	5.5		49	28.96	...		49	7.2	R
2	5.4		49	28.91	...		49	7.9	R
379 <i>Anon.</i>									
June 4	9.0	15	53	17.80	...	150	8	55.6	R
5	9.1		53	17.82	...		8	56.7	R
7	...		53	17.87	4		8	56.8	R
17	9.2		53	17.65	...		8	54.8	R
380 <i>η Norma.</i>									
May 28	5.6	15	54	24.16	...	138	53	34.6	R
29	5.6		54	24.18	...		53	34.4	R
381 <i>δ Norma.</i>									
June 1	...	15	58	1.04	...	134	50	44.9	R
382 <i>8 Scorpii β¹</i>									
July 29	...	15	58	27.56	...	109	28	29.6	R
30	...		58	27.49	...		28	29.7	M
383 <i>8 Scorpii β—2nd.</i>									
June 4	5.6	15	58	27.93	...	109	28	16.7	R
July 5	...		58	28.08	...		28	18.2	M
10	...		58	28.13	...		28	17.6	M
23	...		58	28.15	...		28	18.8	M
28	5.6		58	28.14	...		28	16.8	R
384 <i>6 Herculis v</i>									
June 3	...	15	59	3.35	...	43	37	45.0	R
5	...		59	3.31	...		37	44.6	R
7	...		59	3.36	...		37	46.1	R
385 <i>ε² Norma.</i>									
May 29	5.6	15	59	27.67	...	147	36	34.4	R
June 2	5.6		59	27.60	...		36	33.7	R
9	5.8		59	27.30	...		36	32.9	R
17	5.7		59	27.41	...		36	30.8	R
386 <i>m Scorpii.</i>									
June 18	...	16	0	48.92	...	116	0	11.8	R
19	...		0	48.95	...		0	11.0	R
July 16	...		0	48.87	...		0	13.3	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
387 <i>ζ Normæ.</i>									
May 28	5·7	16	3	49·89	...	145	13	38·4	R
June 5	5·7		3	49·72	...		13	35·3	R
388 <i>κ Normæ.</i>									
June 1	...	16	4	1·46	...	144	19	2·9	R
July 27	...		4	1·28	...		19	3·6	R
Aug. 9	...		4	1·28	...		19	5·2	M
10	...		4	1·22	...		19	3·5	M
11	...		4	1·38	...		19	5·1	M
389 <i>δ Trianguli Australis.</i>									
July 28	...	16	4	31·74	...	153	22	36·6	R
390 <i>11 Herculis φ</i>									
May 27	...	16	4	59·20	...	44	44	56·7	R
June 2	...		4	59·18	...		44	59·1	R
7	...		4	59·08	...		44	59·1	R
8	...		4	59·06	...		44	57·9	R
17	...		4	59·13	...		44	58·4	R
391 <i>Radcliffe 3511.</i>									
July 29	...	16	5	59·61	...	21	52	23·1	R
31	...		5	59·52	...		52	21·9	M
392 <i>θ Normæ.</i>									
May 29	5·6	16	6	32·99	...	137	3	52·5	R
June 19	5·5		6	32·90	...		3	48·9	R
Aug. 7	...		6	32·99	5		3	50·9	M
14	...		6	32·91	...		3	51·7	M
393 <i>γ¹ Normæ.</i>									
July 16	...	16	8	2·12	...	139	45	58·9	M
Aug. 19	...		8	2·13	6		45	56·6	M
394 <i>1 Ophiuchi δ</i>									
June 3	...	16	8	3·41	...	93	22	59·3	R
July 20	...		8	3·52	...		23	2·8	M
27	...		8	3·34	...		23	2·4	R
Aug. 3	...		8	3·48	...		22	59·9	M
395 <i>18 Scorpii.</i>									
May 28	...	16	9	6·03	...	98	3	1·4	R
396 <i>R Scorpii, Var. 1.</i>									
June 4	9·8	16	10	29·74	...	112	38	44·7	R
5	9·9		10	29·86	4		38	45·2	R
8	9·9		10	29·81	...		38	45·5	R
397 <i>S Scorpii, Var. 2.</i>									
June 17	10·7	16	10	31·54	3	112	35	42·4	R
398 <i>d Scorpii.</i>									
July 5	...	16	10	51·51	...	118	18	50·0	M
30	...		10	51·58	...		18	48·9	M
Aug. 10	...		10	51·68	...		18	49·2	M
11	...		10	51·62	...		18	49·8	M
399 <i>γ² Normæ.</i>									
Aug. 24	...	16	10	51·96	...	139	51	33·0	M
400 <i>W. B. E. XVI. 197.</i>									
June 19	9·0	16	12	7·61	...	101	12	42·3	R
July 28	9·2		12	7·53	...		12	43·8	R
401 <i>19 Scorpii.</i>									
June 2	...	16	13	25·07	...	113	52	42·1	R
July 10	...		13	25·07	...		52	40·3	M
29	...		13	24·92	...		52	41·9	R
402 <i>19 Ursæ Minoris.</i>									
June 7	...	16	14	15·81	...	13	49	15·2	R
403 <i>Radcliffe 3534.</i>									
June 9	...	16	15	15·22	...	29	57	10·9	R
July 16	...		15	15·06	5		57	15·0	M
Aug. 9	...		15	15·26	6		57	10·8	M
14	...		15	15·21	...		57	11·4	M

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404	<i>50 Serpentis σ</i>					413	<i>25 Herculis.</i>				
May 20	...	16 15 59.84	...	88 41 15.4	R	June 17	...	16 21 7.62	...	52 19 53.0	R
						19	...	21 7.67	...	19 52.7	R
						July 10	...	21 7.51	...	19 52.2	M
						31	...	21 7.51	...	19 54.2	M
405	<i>O. A. S. 15571.</i>					414	<i>B. F. 2255.</i>				
June 1	7.6	16 16 0.75	...	106 44 6.2	R	May 29	...	16 21 15.46	...	97 19 20.3	R
						June 1	...	21 15.43	...	19 20.2	R
						5	...	21 15.37	...	19 19.6	R
						8	...	21 15.38	...	19 19.8	R
						9	...	21 15.37	...	19 19.3	R
406	<i>22 Herculis τ</i>					415	<i>21 Scorpii α, Antares.</i>				
June 3	...	16 16 7.97	...	43 23 59.4	R	June 16	...	16 22 3.11	...	116 9 50.2	R
5	...	16 8.01	...	21 0.2	R	July 15	...	22 3.08	...	9 52.4	M
18	...	16 7.95	...	24 0.1	R	29	...	22 3.08	...	9 50.0	R
Aug. 18	...	16 8.19	...	23 58.3	M						
20	...	16 8.14	4	23 59.5	M						
407	<i>20 Herculis γ</i>					416	<i>29 Herculis h.</i>				
June 4	...	16 16 37.57	...	70 33 49.9	R	June 7	...	16 26 59.37	...	78 15 10.8	R
						8	...	26 59.33	...	15 10.9	R
						9	...	26 59.41	...	15 11.8	R
408	<i>19 Coronæ Borealis ξ</i>					417	<i>15 Draconis Λ.</i>				
July 27	...	16 17 25.29	...	58 49 43.1	R	May 28	...	16 28 13.21	...	20 58 18.7	R
28	...	17 25.17	...	49 43.9	R	29	...	28 13.12	...	58 19.8	R
						June 4	...	28 13.09	...	58 21.4	R
						17	...	28 13.12	...	58 18.3	R
						28	...	28 13.15	...	58 19.2	R
409	<i>20 Coronæ Borealis ν¹</i>					418	<i>β Normæ.</i>				
May 28	...	16 17 50.27	...	55 55 3.4	R	June 1	...	16 28 28.83	...	125 0 25.0	R
July 30	...	17 50.20	...	55 4.5	M	2	...	28 28.76	...	0 24.1	R
Aug. 10	...	17 50.40	...	55 2.3	M	3	...	28 28.76	...	0 23.3	R
23	...	17 50.29	4	55 2.2	M						
410	<i>21 Coronæ Borealis ν²</i>					419	<i>η¹ Trianguli Australis.</i>				
Aug. 7	...	16 17 57.62	...	56 0 59.7	M	Aug. 9	...	16 29 1.59	6	158 3 15.2	M
						11	...	29 1.53	...	3 14.2	M
						19	...	29 1.58	...	3 14.2	M
411	<i>ε Normæ.</i>										
Aug. 11	...	16 18 23.34	...	137 16 46.6	M						
19	...	18 23.35	...	16 42.2	M						
412	<i>24 Herculis ω</i>										
June 2	...	16 19 52.59	...	75 41 22.1	R						

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404	<i>50 Serpentis σ</i>					413	<i>25 Herculis.</i>				
May 29	...	16 15 59.84	...	88 41 15.4	R	June 17	...	16 21 7.62	...	53 19 53.0	R
						19	...	21 7.67	...	19 52.7	R
405	<i>O. A. S. 15571.</i>					July 10	...	21 7.51	...	19 52.2	M
June 1	7.6	16 16 0.75	...	106 44 6.2	R	31	...	21 7.51	...	19 54.2	M
406	<i>22 Herculis τ</i>					414	<i>B. F. 2255.</i>				
June 3	...	16 16 7.97	...	43 23 59.4	R	May 29	...	16 21 15.46	...	97 19 20.3	R
5	...	16 8.01	...	21 0.2	R	June 1	...	21 15.43	...	19 20.2	R
18	...	16 7.95	...	24 0.1	R	5	...	21 15.37	...	19 19.6	R
Aug. 18	...	16 8.19	...	23 58.3	M	8	...	21 15.38	...	19 19.8	R
20	...	16 8.14	4	23 59.5	M	9	...	21 15.37	...	19 19.3	R
407	<i>20 Herculis γ</i>					415	<i>21 Scorpii α, Antares.</i>				
June 4	...	16 16 37.57	...	70 33 49.9	R	June 16	...	16 22 3.11	...	116 9 50.2	R
						July 15	...	22 3.08	...	9 52.4	M
408	<i>19 Coronæ Borealis ξ</i>					29	...	22 3.08	...	9 50.0	R
July 27	...	16 17 25.29	...	58 49 43.1	R	416	<i>20 Herculis h.</i>				
28	...	17 25.17	...	49 43.9	R	June 7	...	16 26 59.37	...	78 15 10.8	R
409	<i>20 Coronæ Borealis ν^1</i>					8	...	26 59.33	...	15 10.9	R
May 28	...	16 17 50.27	...	55 55 3.4	R	9	...	26 59.41	...	15 11.8	R
July 30	...	17 50.20	...	55 4.5	M	417	<i>15 Draconis Λ.</i>				
Aug. 10	...	17 50.40	...	55 2.3	M	May 28	...	16 28 13.21	...	20 58 18.7	R
23	...	17 50.29	4	55 2.2	M	29	...	28 13.12	...	58 19.8	R
410	<i>21 Coronæ Borealis ν^2</i>					June 4	...	28 13.09	...	58 21.4	R
Aug. 7	...	16 17 57.62	...	56 0 59.7	M	17	...	28 13.12	...	58 18.3	R
411	<i>ϵ Normæ.</i>					28	...	28 13.15	...	58 19.2	R
Aug. 11	...	16 18 23.34	...	137 16 46.6	M	418	<i>β Normæ.</i>				
19	...	18 23.35	...	16 42.2	M	June 1	...	16 28 28.83	...	125 0 25.0	R
412	<i>24 Herculis ω</i>					2	...	28 28.76	...	0 24.1	R
June 2	...	16 19 52.59	...	75 41 22.1	R	3	...	28 28.76	...	0 23.3	R
419	<i>η^1 Trianguli Australis.</i>					419	<i>η^1 Trianguli Australis.</i>				
Aug. 9	...	16 29 1.59	6	158 3 15.2	M	Aug. 9	...	16 29 1.59	6	158 3 15.2	M
11	...	29 1.53	...	3 14.2	M	11	...	29 1.53	...	3 14.2	M
19	...	29 1.58	...	3 14.2	M	19	...	29 1.58	...	3 14.2	M

Number and Date.	Magnitude.	Mean Right Ascension 1880.			No. of Wires.	Mean Polar Distance 1880.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
420 13 <i>Ophiuchi</i> ζ									
June 5	...	16	30	38.12	...	100	19	20.3	R
18	...		30	38.15	...		19	20.5	R
19	...		30	38.07	...		19	19.8	R
July 16	...		30	38.06	...		19	21.6	M
17	...		30	38.06	...		19	21.0	M
27	...		30	38.11	...		19	20.3	R
28	...		30	38.10	...		19	20.9	R
30	...		30	38.14	...		19	20.9	M
Aug. 8	...		30	38.14	...		19	20.1	M
7	...		30	38.13	...		19	21.2	M
18	...		30	38.11	...		19	20.3	M
20	...		30	38.07	...		19	20.5	M
421 40 <i>Herculis</i> ζ									
June 16	...	16	36	45.74	...	58	10	48.3	R
17	...		36	45.76	...		10	43.4	R
July 10	...		36	45.70	...		10	41.9	M
28	...		36	45.67	...		10	44.9	M
Aug. 18	...		36	45.91	...		10	41.4	M
422 43 <i>Herculis</i> i.									
May 28	...	16	40	4.21	...	81	11	51.2	R
29	...		40	4.22	...		11	51.7	R
423 18 <i>Draconis</i> g.									
June 4	...	16	40	5.25	...	25	10	59.3	R
5	...		40	5.26	...		10	59.4	R
7	...		40	5.11	...		11	0.4	R
8	...		40	5.34	...		11	0.6	R
9	...		40	5.32	...		11	2.2	R
424 Radcliffe 3602.									
June 8	...	16	43	1.09	...	33	0	10.5	R
425 52 <i>Herculis</i> .									
Aug. 7	...	16	45	43.86	...	48	48	28.2	M
11	...		45	43.44	...		48	22.4	M
19	...		45	43.42	...		48	20.6	M
426 Taylor 7804.									
June 4	7.0	16	45	44.62	...	131	37	26.3	R
7	...		45	44.70	4		37	26.9	R
9	7.2		45	44.66	...		37	25.3	R
427 Taylor 7805.									
June 5	7.0	16	45	46.26	...	131	38	49.4	R
16	7.0		45	46.30	...		38	52.3	R
18	...		45	46.34	...		38	52.2	R
428 Taylor 7806.									
June 8	8.0	16	45	54.43	...	131	37	9.5	R
17	8.0		45	54.58	...		37	8.0	R
July 16	...		45	54.51	...		37	9.9	M
28	8.0		45	54.51	...		37	8.5	R
29	...		45	54.49	...		37	9.8	R
429 50 <i>Herculis</i> .									
June 28	...	16	45	57.86	...	59	59	15.9	R
July 10	...		45	57.65	...		59	13.9	M
17	...		45	57.88	...		59	15.0	M
31	...		45	57.69	...		59	15.8	M
Aug. 9	...		45	57.67	...		59	17.0	M
430 Taylor 7807.									
May 29	5.6	16	45	58.62	...	132	16	42.0	R
June 1	5.6		45	58.54	...		16	41.0	R
19	5.5		45	58.44	...		16	41.4	R
Aug. 3	...		45	58.58	4		16	43.0	M
10	...		45	58.47	...		16	41.9	M
14	..		45	58.54	...		16	41.4	M
431 Lacaille 6989.									
May 28	...	16	46	42.07	...	159	4	33.3	R
432 23 <i>Ophiuchi</i> .									
Aug. 18	...	16	48	11.03	...	95	57	21.6	M
20	...		48	10.81	...		57	20.7	M
23	...		48	10.87	...		57	20.9	M

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433 <i>25 Ophiuchi ι</i>						439 <i>Lacaille 7102.</i>					
Aug. 24	...	16 48 19.59	...	79 38 5.8	M	May 29	5.8	16 59 9.75	...	151 30 56.1	R
25	...	48 19.75	...	38 5.6	M	June 17	5.6	59 9.71	...	30 55.2	R
30	...	48 19.60	...	38 6.5	M	19	5.5	59 9.64	...	30 53.8	R
31	...	48 19.84	...	38 5.6	M	Aug. 11	...	59 9.68	...	30 55.6	M
						14	...	59 9.75	...	30 54.1	M
434 <i>27 Ophiuchi κ</i>						440 <i>Lacaille 7107.</i>					
June 8	...	16 51 59.19	...	80 26 12.4	R	June 8	...	17 1 2.42	...	157 2 26.9	R
17	...	51 59.28	...	26 11.7	R	Aug. 19	...	1 2.42	...	2 27.7	M
July 16	...	51 59.16	...	26 13.5	M						
28	...	51 59.22	...	26 12.9	R						
29	...	51 59.24	...	26 14.0	R						
435 <i>ε² Arce.</i>						441 <i>ι Scorpii.</i>					
May 29	...	16 53 33.74	...	143 3 17.8	R	June 4	5.6	17 2 0.69	...	134 23 59.0	R
						5	5.6	2 0.65	...	24 2.1	R
						16	5.6	2 0.76	...	24 2.1	R
436 <i>19 Draconis h¹.</i>						442 <i>21 Draconis μ</i>					
May 28	...	16 55 21.98	...	24 40 54.0	R	June 7	...	17 2 50.74	...	35 22 13.9	R
June 5	...	55 22.29	...	40 53.9	R	July 28	...	2 50.63	...	22 14.4	R
9	...	55 22.12	...	40 53.4	R	29	...	2 50.65	...	22 15.5	R
28	...	55 22.10	5	40 54.7	R	31	...	2 50.76	...	22 11.9	M
July 10	...	55 22.08	...	40 51.2	M	Aug. 3	...	2 50.71	...	22 10.7	M
437 <i>59 Herculis δ.</i>						443 <i>35 Ophiuchi η</i>					
June 1	...	16 57 10.59	...	56 15 25.8	R	June 9	...	17 3 29.81	...	105 34 29.1	R
3	...	57 10.58	...	15 25.8	R	July 9	...	3 29.77	...	34 29.0	M
4	...	57 10.48	...	15 26.7	R	17	...	3 29.82	...	34 28.5	M
7	...	57 10.52	...	15 26.0	R	Aug. 18	...	3 29.63	...	34 27.9	M
						20	...	3 29.71	...	34 28.8	M
438 <i>22 Ursæ Minoris ε—s.p.</i>						444 <i>37 Ophiuchi.</i>					
Jan. 7	...	16 58 19.23	3	7 46 3.1	M	May 28	...	17 6 48.51	...	79 16 5.1	R
15	...	58 18.23	3	46 4.4	M						
22	...	58 19.21	3	46 3.1	M						
Dec. 10	...	58 18.42	3	46 1.9	M						
11	...	58 18.68	3	46 1.5	M						
13	...	58 18.81	3	46 6.3	M						
445 <i>36 Ophiuchi A—1st.</i>											
May 29	5.0	17 7 58.22	...	116 25 31.2	R						
June 1	5.3	7 58.16	...	25 30.6	R						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
446 <i>ι Apodis.</i>										452 <i>69 Herculis e.</i>									
June 8	...	17	8	43.50	...	159	59	38.8	R	May 28	...	17	13	31.81	...	52	34	55.0	R
Aug. 24	...		8	43.52	...		59	37.4	M	June 5	...		13	31.99	...		34	55.0	R
25	...		8	43.42	...		59	35.6	M	7	...		13	31.90	...		34	55.0	R
30	...		8	43.30	...		59	39.4	M	8	...		13	31.96	...		34	55.2	R
31	...		8	43.48	...		59	37.7	M	453 <i>53 Serpentis ν</i>									
447 <i>64 Herculis α¹, Var. 1.</i>										June 1	...	17	14	4.81	...	102	43	23.7	R
June 19	...	17	9	10.50	...	75	28	18.8	R	9	...		14	4.61	...		43	22.7	R
July 9	...		9	10.66	...		28	18.2	M	454 <i>42 Ophiuchi θ</i>									
13	...		9	10.54	...		28	18.6	M	June 4	...	17	14	38.42	...	114	52	40.5	R
448 <i>υ Scorpii.</i>										Aug. 19	...		14	38.40	...		52	39.7	M
June 4	5.6	17	9	15.27	...	122	31	31.4	R	455 <i>κ¹ Aræ.</i>									
5	5.6		9	15.27	...		31	31.7	R	July 16	...	17	16	38.70	...	140	31	19.8	M
449 <i>65 Herculis δ</i>										456 <i>κ² Aræ.</i>									
July 10	...	17	10	6.04	...	65	1	4.2	M	May 29	5.6	17	17	51.32	...	140	31	17.3	R
16	...		10	5.95	...		1	5.5	M	June 17	5.6		17	51.15	4		31	18.1	R
23	...		10	6.17	...		1	4.7	M	July 17	...		17	51.16	...		31	17.7	M
28	...		10	6.17	...		1	5.4	R	457 <i>Taylor 8071.</i>									
29	...		10	6.09	...		1	5.5	R	June 4	...	17	20	15.83	...	94	58	45.0	R
450 <i>41 Ophiuchi.</i>										7	...		20	15.85	...		58	44.1	R
June 17	...	17	10	26.89	...	90	18	26.5	R	458 <i>49 Ophiuchi σ</i>									
28	...		10	26.88	...		18	30.1	R	June 1	...	17	20	33.66	...	85	45	14.2	R
July 17	...		10	27.08	...		18	28.2	M	5	...		20	33.62	...		45	14.6	R
30	...		10	26.96	...		18	28.3	M	16	...		20	33.69	...		45	14.0	R
31	...		10	27.02	...		18	30.0	M	July 30	...		20	33.69	...		45	13.9	M
451 <i>39 Ophiuchi—(South.)</i>										Aug. 7	...		20	33.63	...		45	15.2	M
June 16	...	17	10	41.62	...	114	9	15.6	R	9	...		20	33.60	...		45	13.9	M
Aug. 3	...		10	41.50	...		9	16.0	M	14	...		20	33.68	...		45	12.8	M
10	...		10	41.40	...		9	16.2	M	20	...		20	33.68	...		45	14.2	M
11	...		10	41.78	...		9	15.9	M	23	...		20	33.56	...		45	11.3	M
14	...		10	41.71	...		9	15.2	M	24	...		20	33.56	...		45	13.1	M
										30	...		20	33.58	...		45	15.6	M
										31	...		20	33.66	...		45	14.4	M

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459 <i>σ Aræ.</i>						466 <i>27 Draconis f.</i>					
May 28	5.6	17 26 43.81	...	136 25 14.4	R	May 28	...	17 32 26.44	...	21 47 18.2	R
29	5.6	26 43.81	...	25 14.5	R	June 1	...	32 26.55	...	47 20.7	R
						4	...	32 26.46	...	47 20.9	R
						Aug. 23	...	32 26.64	...	47 18.8	M
460 <i>Taylor 8122.</i>						467 <i>60 Ophiuchi β</i>					
June 4	5.6	17 28 17.01	...	128 32 54.4	R	July 13	...	17 37 32.65	...	85 22 50.3	R
8	5.6	28 16.90	...	32 56.0	R	16	...	37 32.64	...	22 51.0	R
9	5.6	28 16.97	...	32 54.6	R	31	...	37 32.78	...	22 51.0	M
17	5.3	28 16.96	...	32 54.1	R	Aug. 10	...	37 32.71	...	22 49.7	M
July 16	...	28 16.94	...	32 56.6	M	11	...	37 32.66	...	22 50.6	M
461 <i>55 Ophiuchi α</i>						19	...	37 32.64	...	22 50.5	M
July 13	...	17 29 21.77	...	77 21 4.3	R	24	...	37 32.62	...	22 50.4	M
31	...	29 21.73	...	21 4.1	M	25	...	37 32.57	...	22 50.7	M
Sep. 1	...	29 21.82	...	21 3.8	R	30	...	37 32.61	...	22 52.7	M
						31	...	37 32.54	...	22 50.9	M
462 <i>24 Draconis ν¹</i>						468 <i>28 Draconis ω</i>					
June 7	...	17 29 48.65	...	34 44 0.1	R	May 29	...	17 37 38.93	...	21 11 10.5	R
16	...	29 48.65	...	43 58.6	R	June 5	...	37 38.97	...	11 11.7	R
July 30	...	29 48.61	6	43 58.1	M	8	...	37 39.08	...	11 12.5	R
Aug. 10	...	29 48.79	...	43 56.2	M	469 <i>86 Herculis μ</i>					
11	...	29 48.83	...	43 58.7	M	June 7	...	17 41 45.73	...	62 12 28.2	R
463 <i>25 Draconis ν²</i>						8	...	41 45.71	...	12 28.3	R
July 28	...	17 29 53.86	...	34 44 40.1	R	9	...	41 45.73	...	12 29.6	R
29	...	29 53.85	...	44 41.0	R	16	...	41 45.72	...	12 27.7	R
Aug. 9	...	29 54.00	...	44 41.9	M	17	...	41 45.70	...	12 27.5	R
14	...	29 54.08	...	44 40.9	M	Aug. 3	...	41 45.59	...	12 26.6	M
19	...	29 53.90	...	44 38.0	M	9	...	41 45.76	...	12 28.4	M
464 <i>57 Ophiuchi μ</i>						Sep. 1	...	41 45.81	...	12 28.3	R
May 29	...	17 31 19.39	...	98 2 38.6	R	470 <i>ι³ Scorpii.</i>					
465 <i>Taylor 8150.</i>						May 28	5.6	17 41 47.54	...	130 2 58.8	R
June 5	7.0	17 32 12.00	...	122 7 52.6	R	June 1	5.8	41 47.38	...	2 58.2	R
Aug. 20	...	32 12.02	...	7 51.8	M	4	5.6	41 47.56	...	2 58.9	R
471 <i>92 Herculis ξ</i>						471 <i>92 Herculis ξ</i>					
May 28	...	17 53 6.03	...	60 44 17.7	R	May 28	...	17 53 6.03	...	60 44 17.7	R
29	...	53 6.04	...	44 18.2	R	29	...	53 6.04	...	44 18.2	R

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472 94 <i>Herculis</i> ν						479 72 <i>Ophiuchi</i> .					
June 4	...	17 53 54.48	...	59 47 57.0	R	July 31	...	18 1 39.49	...	80 27 5.3	M
July 28	...	53 54.29	...	47 53.8	M	Aug. 7	...	1 39.56	...	27 5.9	M
28	...	53 54.48	...	47 56.8	R	10	...	1 39.54	...	27 7.6	M
31	...	53 54.42	...	47 55.5	M	11	...	1 39.49	...	27 5.2	M
						19	...	1 39.58	...	27 7.5	M
						Sep. 3	...	1 39.63	...	27 7.2	R
473 66 <i>Ophiuchi</i> .						480 13 <i>Sagittarii</i> μ^1					
June 5	...	17 54 19.20	...	85 37 22.1	R	May 28	...	18 6 35.22	...	111 5 13.7	R
9	...	54 19.12	...	37 22.8	R	20	...	6 35.18	...	5 19.2	R
16	...	54 19.12	...	37 22.4	R	Sep. 4	...	6 35.05	...	5 17.6	R
474 67 <i>Ophiuchi</i> .						481 40 <i>Draconis</i> .					
June 1	...	17 54 38.29	...	87 3 39.5	R	Aug. 11	...	18 9 1.63	...	10 0 58.4	M
July 10	...	54 38.14	...	3 36.9	M	14	...	9 1.29	...	0 57.4	M
16	...	54 38.06	...	3 40.3	M	19	...	9 1.33	6	0 58.0	M
30	...	54 38.28	0	3 39.2	M						
Aug. 9	...	54 38.08	...	3 38.8	M						
475 93 <i>Herculis</i> .						482 41 <i>Draconis</i> .					
July 13	...	17 54 42.76	...	73 14 25.2	M	Aug. 9	...	18 9 7.14	6	10 0 45.1	M
Aug. 10	...	54 42.91	...	14 26.2	M	24	...	9 7.10	3	0 47.9	M
11	...	54 42.86	...	14 27.6	M	30	...	9 7.54	...	0 48.1	M
476 35 <i>Draconis</i> .						Sep. 1	...	9 7.22	...	0 47.0	R
Aug. 14	...	17 54 40.14	0	13 1 17.4	M	3	...	9 7.55	...	0 47.8	R
23	...	54 49.48	...	1 16.8	M						
Sep. 1	...	54 49.31	...	1 20.5	R						
3	...	54 49.37	...	1 18.2	R						
7	...	54 49.33	...	1 18.4	R						
477 69 <i>Ophiuchi</i> τ						483 23 <i>Ursæ Minoris</i> δ					
June 7	...	17 56 32.88	...	93 10 42.7	R	Aug. 25	...	18 11 3.26	3	3 23 27.0	M
478 π <i>Pavonis</i> .						484 36 <i>Draconis</i> .					
Aug. 24	...	17 57 1.71	2	153 40 15.7	M	May 23	...	18 13 12.04	...	25 38 35.7	R
25	...	57 1.71	...	40 16.0	M	July 10	...	13 12.22	...	38 31.4	M
31	...	57 1.70	...	40 15.7	M	15	...	13 12.38	...	38 34.7	M
Sep. 4	...	57 1.78	...	40 16.1	R	16	...	13 12.09	...	38 35.7	M
						23	...	13 12.39	...	38 31.3	M

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485 <i>58 Serpentis η</i>						491 <i>5 Lyrae ϵ^2—2nd.</i>					
Aug. 10	...	18 15 5.92	...	92 55 43.0	M	Aug. 11	...	18 40 24.21	...	50 30 44.1	M
23	...	15 6.03	...	55 42.3	M	14	...	40 24.23	...	30 42.4	M
Sep. 4	...	15 6.01	...	55 40.6	R	23	...	40 24.24	...	30 40.2	M
6	...	15 6.01	...	55 43.2	R	24	...	40 24.25	...	30 41.1	M
13	...	15 6.09	...	55 43.1	R						
486 <i>22 Sagittarii λ</i>						492 <i>6 Lyrae ζ^1</i>					
Aug. 23	...	18 20 33.88	...	115 29 8.8	M	Aug. 20	...	18 40 38.26	...	52 31 7.8	M
Sep. 3	...	20 33.79	...	29 7.8	R	25	...	40 38.46	...	31 5.9	M
6	...	20 33.80	...	29 8.5	R	Sep. 1	...	40 38.34	...	31 9.0	R
7	...	20 33.84	...	29 7.9	R	3	...	40 38.35	...	31 9.6	R
13	...	20 33.88	...	29 7.0	R	6	...	40 38.46	...	31 8.4	R
15	...	20 33.75	...	29 8.8	R						
487 <i>44 Draconis χ</i>						493 <i>7 Lyrae ζ^2</i>					
July 10	...	18 23 12.97	...	17 19 8.6	M	Aug. 30	...	18 40 40.11	6	52 31 48.7	M
23	...	23 13.19	6	19 9.6	M	Sep. 4	...	40 39.97	...	31 46.5	R
Aug. 9	...	23 13.17	...	19 12.9	M	7	...	40 40.18	...	31 45.2	R
11	...	23 13.15	...	19 12.2	M	13	...	40 39.98	...	31 46.2	R
488 <i>3 Lyrae α, Vega</i>						494 <i>Radeliffe 4070.</i>					
Aug. 14	...	18 32 52.55	...	51 19 37.2	M	Sep. 16	...	18 44 1.96	...	37 8 36.3	R
25	...	32 52.51	...	19 37.7	M	18	...	44 2.08	...	8 35.0	R
Sep. 14	...	32 52.51	...	19 37.2	R	21	...	44 2.13	...	8 34.6	R
15	...	32 52.41	...	19 36.4	R	22	...	44 1.86	...	8 31.6	R
16	...	32 52.41	...	19 38.7	R						
489 <i>46 Draconis ϵ.</i>						495 <i>κ Pavonis, Var.</i>					
Aug. 9	...	18 40 18.32	...	34 34 51.8	M	Sep. 17	5.0	18 44 34.04	...	157 22 52.7	R
10	...	40 18.48	...	34 52.0	M	23	5.0	44 33.97	...	22 50.4	R
19	...	40 18.46	...	34 49.5	M	Oct. 2	...	44 33.94	...	22 49.5	M
						4	...	44 33.97	...	22 50.2	M
						5	...	44 34.05	...	22 53.0	M
490 <i>4 Lyrae ϵ^1 2nd.</i>						496 <i>10 Lyrae β^1, Var. 1.</i>					
May 28	...	18 40 21.69	...	50 27 14.0	R	July 9	...	18 45 38.80	...	56 46 33.3	M
June 10	...	40 21.74	...	27 12.4	R						
July 10	...	40 21.90	5	27 14.3	M						
23	...	40 21.80	5	27 14.0	M						
29	...	40 21.79	...	27 14.9	R						
497 <i>ω Pavonis.</i>						497 <i>ω Pavonis.</i>					
						May 23	...	18 47 56.25	...	150 21 20.3	R

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Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
498 <i>B. F. 2577.</i>						505 <i>R. P. L. 131—s.p.</i>					
Aug. 14	...	18 48 45.81	6	16 3 10.7 6.6	M	Mar. 19	...	18 53 59.45	3	3 26 41.5	T
Sep. 15	...	48 45.87	...	3 9.0	R	506 <i>13 Aquilæ ε</i>					
18	...	48 45.67	...	3 8.5	R	Sep. 24	...	18 54 10.42	...	75 5 35.1	R
22	...	48 45.75	...	3 6.8	R	507 <i>52 Draconis v</i>					
24	...	48 45.92	...	3 7.7	R	Aug. 19	...	18 55 51.94	6	18 51 43.1	M
499 <i>Radcliffe 4109.</i>						20	...	55 51.82	6	51 43.9	M
July 16	...	18 48 53.48	...	37 10 43.5	M	25	...	55 51.70	6	51 43.0	M
Aug. 24	...	48 53.35	...	10 42.2	M	Sep. 6	...	55 51.77	...	51 47.2	R
Sep. 3	...	48 53.42	...	10 40.9	R	13	...	55 51.77	...	51 45.9	R
4	6.5	48 53.42	...	10 42.5	R	508 <i>17 Aquilæ ζ</i>					
500 <i>47 Draconis o</i>						Aug. 14	...	18 59 53.48	...	76 18 47.8	M
Aug. 19	...	18 49 25.87	...	30 45 26.6	M	30	...	59 53.51	...	18 48.3	M
25	...	49 25.70	...	45 27.0	M	Sep. 1	...	59 53.58	...	18 46.9	R
501 <i>11 Lyræ δ¹</i>						7	...	59 53.52	...	18 46.7	R
July 29	...	18 49 32.04	3	53 10 39.8	R	15	...	59 53.55	...	18 46.7	R
Aug. 20	...	49 32.05	...	10 37.4	M	16	...	59 53.43	...	18 47.8	R
23	...	49 31.98	...	10 36.7	M	18	...	59 53.61	...	18 47.5	R
Sep. 1	...	49 31.90	...	10 38.1	R	21	...	59 53.52	...	18 48.1	R
502 <i>50 Draconis.</i>						509 <i>25 Aquilæ ω</i>					
Sep. 17	...	18 50 14.35	...	14 42 29.3	R	Aug. 9	...	19 12 10.94	...	78 37 10.3	M
23	...	50 14.13	...	42 28.2	R	24	...	12 11.03	...	37 9.1	M
Oct. 2	...	50 13.94	4	42 26.2	M	Sep. 3	...	12 10.94	...	37 10.7	R
4	...	50 14.06	5	42 27.7	M	6	...	12 10.97	...	37 9.9	R
5	...	50 14.05	5	42 29.3	M	13	...	12 10.93	...	37 10.7	R
503 <i>θ Serpentis—2nd.</i>						14	...	12 10.93	...	37 12.0	R
July 31	...	18 50 16.65	...	85 57 10.0	M	18	...	12 10.89	...	37 10.1	R
Aug. 11	...	50 16.78	...	57 8.8	M	22	...	12 10.96	...	37 9.9	R
Sep. 6	...	50 16.61	...	57 8.6	R	28	...	12 10.95	...	37 10.3	R
504 <i>12 Lyræ δ²</i>						Oct. 5	...	12 10.70	...	37 12.0	M
Aug. 30	...	18 50 18.31	...	53 15 12.1	M	510 <i>Lacaille 8036—1st.</i>					
Sep. 7	...	50 18.30	...	15 9.8	R	Sep. 17	...	19 12 37.75	4	161 41 40.1	R
13	...	50 18.34	...	15 8.6	R	24	...	12 37.82	4	41 37.8	R
14	...	50 18.35	4	15 10.5	R	29	9.0	12 38.07	4	41 38.3	R
16	...	50 18.36	...	15 12.1	R	30	9.0	12 38.07	4	41 39.7	R
						Oct. 4	9.0	12 38.08	5	41 37.0	M

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511 30 <i>Aquilæ</i> δ						Sep. 21	...	19 40 33.21	...	79 40 40.8	R
Aug. 11	...	19 19 26.87	...	87 7 22.5	M	23	...	40 33.28	...	40 40.6	R
25	...	19 26.84	...	7 22.2	M	28	...	40 33.28	...	40 39.6	R
30	...	19 26.86	...	7 23.0	M	29	...	40 33.26	...	40 40.3	R
31	...	19 26.84	...	7 21.7	M	30	...	40 33.21	...	40 40.2	R
Sep. 1	...	19 26.75	...	7 22.7	R	Oct. 1	...	40 33.28	...	40 39.3	M
3	...	19 26.80	...	7 23.9	R	4	...	40 33.24	...	40 39.9	M
4	...	19 26.77	...	7 26.1	R	6	...	40 33.19	...	40 38.4	M
6	...	19 26.82	...	7 22.6	R	515 λ <i>Ursæ Minoris</i> .					
13	...	19 26.69	...	7 23.3	R	Aug. 11	...	19 44 11.41	1	1 3 21.4	M
14	...	19 26.82	...	7 24.1	R	516 13 <i>Vulpeculæ</i> .					
17	...	19 26.79	...	7 22.2	R	Aug. 9	...	19 48 21.43	...	66 13 56.1	M
18	...	19 26.74	...	7 23.5	R	10	...	48 21.47	...	13 56.2	M
21	...	19 26.84	...	7 22.7	R	517 58 <i>Sagittarii</i> ω					
23	...	19 26.76	...	7 22.7	R	Sep. 22	...	19 48 29.25	...	116 36 58.2	R
28	...	19 26.77	...	7 21.9	R	518 60 <i>Aquilæ</i> β					
30	...	19 26.83	...	7 23.4	R	July 16	...	19 49 25.16	...	83 53 28.9	M
Oct. 2	...	19 26.81	...	7 21.4	M	Sep. 20	...	49 25.07	...	53 28.7	R
5	...	19 26.75	...	7 24.6	M	23	...	49 25.07	...	53 28.8	R
512 51 <i>Sagittarii</i> h^1 , Var.						24	...	49 25.05	...	53 27.9	R
Aug. 24	...	19 28 44.59	5	114 58 46.0	M	Oct. 6	...	49 25.05	...	53 26.2	M
25	...	28 44.39	...	58 47.9	M	7	...	49 24.98	...	53 27.0	M
Sep. 17	6.7	28 44.56	...	58 47.3	R	8	...	49 25.09	...	53 27.4	M
18	...	28 44.49	...	58 48.6	R	519 65 <i>Aquilæ</i> θ					
21	...	28 44.39	...	58 48.0	R	Aug. 9	...	20 5 6.76	...	91 10 35.1	M
513 52 <i>Sagittarii</i> h^2 .						Sep. 4	...	5 6.71	...	10 33.0	R
Sep. 1	...	19 29 24.11	...	115 8 47.1	R	15	...	5 6.85	...	10 33.7	R
16	...	29 24.16	...	8 48.6	R	17	...	5 6.76	...	10 33.9	R
20	...	29 24.16	...	8 48.4	R	18	...	5 6.76	...	10 33.8	R
22	...	29 24.13	...	8 47.4	R	24	...	5 6.75	...	10 34.7	R
24	...	29 24.11	...	8 46.9	R	28	...	5 6.76	...	10 33.0	R
29	...	29 24.18	...	8 47.7	R	29	...	5 6.70	...	10 33.5	R
Oct. 4	...	29 24.14	...	8 47.2	M	Oct. 1	...	5 6.83	...	10 35.0	M
514 50 <i>Aquilæ</i> γ						2	...	5 6.86	...	10 33.4	M
Sep. 7	...	19 40 33.32	...	79 40 39.9	R	4	...	5 6.68	...	10 33.7	M
13	...	40 33.28	...	40 39.5	R						
16	...	40 33.36	...	40 40.7	R						
17	...	40 33.31	...	40 39.9	R						
20	...	40 33.27	...	40 40.2	R						

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Oct. 5	...	20 5 6.85	...	91 10 35.3	M	Sep. 29	...	20 25 41.83	3	5 17 7.8	R
6	...	5 6.82	...	10 33.2	M	30	...	25 41.98	3	17 5.6	R
7	...	5 6.84	...	10 35.2	M	Oct. 2	...	25 41.33	3	17 4.3	M
8	...	5 6.81	...	10 34.9	M	4	...	25 42.31	3	17 5.9	M
9	...	5 6.64	...	10 34.4	M	<i>R. P. L. 141.—s.p.</i>					
520 6 Capricorni α ²						Feb. 21	...	20 25 41.37	3	5 17 4.8	M
Sep. 6	...	20 11 23.66	...	102 54 56.0	R	25	...	25 43.58	3	17 5.7	M
17	...	11 23.71	...	54 54.9	R	27	...	25 40.80	3	17 4.8	M
21	...	11 23.78	...	54 55.6	R	28	...	25 41.06	3	17 7.7	M
22	...	11 23.66	...	54 55.1	R	Mar. 1	...	25 41.41	3	17 5.8	R
30	...	11 23.72	...	54 56.2	R	2	...	25 41.61	3	17 3.1	R
Oct. 7	...	11 23.66	...	54 55.2	M	3	...	25 41.53	3	17 4.8	R
8	...	11 23.63	...	54 54.0	M	4	...	25 41.66	5	17 6.1	R
9	...	11 23.62	...	54 53.3	M	5	...	25 41.54	3	17 4.0	R
521 1 Cephei κ						6	...	25 41.85	3	17 6.2	R
Aug. 19	...	20 12 54.29	...	12 39 0.9	M	525 <i>R. P. L. 143—s.p.</i>					
30	...	12 54.47	...	39 3.8	M	Feb. 18	...	20 27 26.04	3	5 15 16.2	M
31	...	12 54.51	...	39 2.8	M	Apl. 7	...	27 27.50	3	15 16.6	T
Sep. 3	...	12 54.51	...	38 59.9	R	13	...	27 25.58	3	15 16.6	T
4	...	12 54.53	...	39 0.1	R	526 2 Delphini ε					
522 11 Capricorni ρ						Oct. 1	...	20 27 28.67	...	79 6 11.7	M
Sep. 3	...	20 22 0.79	...	108 12 32.3	R	13	...	27 28.66	...	6 10.5	M
523 V Capricorni, Var. 8.						527 2 Cephei θ					
Sep. 4	9.5	20 23 49.84	...	102 37 47.8	R	Aug. 19	...	20 27 33.90	...	27 24 27.8	M
6	9.4	23 49.68	...	37 51.2	R	30	...	27 33.93	...	24 28.9	M
7	...	23 49.77	...	37 51.8	R	31	...	27 33.91	...	24 30.6	M
15	...	23 49.82	4	37 51.3	R	Sep. 3	...	27 33.77	...	24 28.5	R
16	9.3	23 49.90	...	37 51.3	R	528 2 Aquarii ε					
17	9.2	23 49.97	...	37 49.2	R	Aug. 30	...	20 41 10.72	...	99 56 2.9	M
18	...	23 49.93	...	37 49.3	R	Sep. 4	...	41 10.73	...	55 59.6	R
20	...	23 49.90	3	37 48.6	R	7	...	41 10.69	...	56 1.1	R
22	...	23 49.86	...	37 50.3	R	15	...	41 10.76	...	56 1.3	R
24	9.2	23 49.85	...	37 50.0	R	Oct. 2	...	41 10.61	...	56 1.6	M
524 <i>R. P. L. 141.</i>						4	...	41 10.70	...	56 2.3	M
Sep. 21	...	20 25 41.34	3	5 17 7.6	R	13	...	41 10.59	...	56 1.3	M
23	...	25 41.95	3	17 7.2	R	15	...	41 10.70	...	56 1.8	M

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
529 <i>32 Vulpeculæ.</i>										535 <i>Anon.</i>									
Oct. 13	...	20	49	26.87	...	62	23	40.2	M	Sep. 22	9.0	21	4	53.25	...	121	4	38.9	R
14	...	49	26.85	...	...	23	51.6	M	24	8.5	...	4	53.33	...	...	4	39.6	R
15	...	49	26.70	...	...	23	50.7	M	30	8.5	...	4	53.30	...	...	4	37.7	R
16	...	49	26.72	...	...	23	50.7	M	Oct. 6	8.0	...	4	53.38	...	...	4	38.9	M
										8	8.5	...	4	53.39	4	40.6	M
530 <i>76 Draconis—s.p.</i>										536 <i>64 Cygni ζ</i>									
Feb. 21	...	20	51	10.65	5	7	54	50.9	M	Oct. 16	...	21	7	49.70	...	60	15	51.1	M
27	...	51	10.88	5	...	54	51.5	M	20	...	...	7	49.74	...	...	15	49.8	M
28	...	51	10.82	5	...	54	54.9	M											
Mar. 2	...	51	10.78	3	...	54	52.5	R											
3	...	51	10.62	3	...	54	54.1	R											
531 <i>Radcliffe 5066.</i>										537 <i>Anon.</i>									
Aug. 30	...	20	52	59.81	...	9	53	54.4	M	Sep. 3	9.0	21	9	28.67	5	120	47	4.0	R
31	...	52	59.26	...	...	53	55.2	M	4	9.2	...	9	28.40	...	...	47	4.0	R
Sep. 4	...	52	59.60	...	...	53	52.1	R	15	9.8	...	9	28.40	...	...	47	5.9	R
										17	9.7	...	9	28.62	47	6.3	R
										21	9	28.60	47	4.4	R
532 <i>23 Capricorni θ</i>										538 <i>O. A. S. 21345.</i>									
Sep. 30	...	20	59	11.97	...	107	42	31.4	M	Sep. 3	8.0	21	15	32.78	...	119	56	40.5	R
Oct. 14	...	59	11.84	...	...	42	30.2	M	4	8.3	...	15	32.81	...	...	56	39.9	R
15	...	59	11.89	...	...	42	30.7	M	6	8.5	...	15	32.74	4	...	56	42.8	R
16	...	59	11.88	...	...	42	29.7	M	15	8.2	...	15	32.96	...	...	56	43.4	R
20	...	59	12.10	...	...	42	30.8	M	16	8.8	...	15	32.90	...	...	56	43.5	R
533 <i>α Pavonis.</i>										539 <i>Brisbane 7028.</i>									
Sep. 17	5.5	21	2	3.43	...	160	36	50.4	R	Sep. 23	9.2	21	21	59.02	4	147	23	41.7	R
18	...	2	3.46	4	...	36	48.6	R	Oct. 1	...	...	21	59.33	6	...	23	38.1	M
Oct. 9	5.5	2	3.44	...	...	36	51.6	M	2	...	...	21	59.13	...	...	23	38.7	M
13	5.5	2	3.58	...	...	36	47.0	M	4	9.5	...	21	59.06	...	...	23	41.1	M
534 <i>Anon.</i>										540 <i>Anon.</i>									
Sep. 23	9.5	21	2	50.74	...	120	58	45.8	R	Oct. 14	9.5	21	22	22.91	6	147	28	52.5	M
Oct. 2	...	2	50.69	...	...	58	45.5	M										
4	10.0	2	50.82	...	...	58	46.0	M										
5	10.0	2	50.81	...	...	58	47.0	M										
7	10.0	2	50.84	...	...	58	45.9	M										
541 <i>22 Aquarii β</i>										541 <i>22 Aquarii β</i>									
Sep. 16	...	21	25	14.44	...	96	5	53.3	R	Sep. 16	...	21	25	14.44	...	96	5	53.3	R
18	...	25	14.41	...	...	5	52.8	R	18	...	25	14.41	...	...	5	52.8	R	
21	...	25	14.37	5	53.7	R	21	...	25	14.37	5	53.7	R		
22	...	25	14.45	5	53.1	R	22	...	25	14.45	5	53.1	R		
24	...	25	14.45	5	53.8	R	24	...	25	14.45	5	53.8	R		

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		h. m. s.		° ' "				h. m. s.		° ' "	
Oct. 5	...	21 25 14.44	...	96 5 53.8	M	Oct. 14	...	21 47 36.15	...	64 38 16.4	M
6	...	25 14.48	...	5 52.2	M	21	...	47 36.13	...	38 17.0	M
9	...	25 14.44	...	5 52.0	M	25	...	47 36.08	...	38 15.4	M
20	...	25 14.33	...	5 52.1	M	26	...	47 36.25	...	38 18.1	M
26	...	25 14.42	...	5 52.7	M	Nov. 5	...	47 36.07	...	38 19.0	R
Nov. 1	...	25 14.34	...	5 55.1	R						
542 8 Pegasi ϵ						547 W. B. E. XXI. 1334.					
Oct. 2	...	21 38 17.49	...	80 40 26.8	M	Oct. 13	8.0	21 59 12.08	...	98 16 38.8	M
21	...	38 17.52	...	40 25.1	M	16	...	59 11.98	...	16 38.3	M
25	...	38 17.54	...	40 27.0	M	25	...	59 11.85	...	16 39.5	M
26	...	38 17.42	...	40 28.5	M	26	...	59 12.04	...	16 40.3	M
Nov. 1	...	38 17.58	...	40 27.1	R	29	8.0	59 11.98	...	16 39.1	M
2	...	38 17.54	...	40 26.8	R						
543 78 Draconis.						548 34 Aquarii α					
Sep. 16	...	21 41 35.97	...	18 13 47.8	R	Oct. 2	...	21 59 37.11	...	90 54 5.9	M
18	...	41 36.00	...	13 46.6	R	6	...	59 37.07	...	54 6.5	M
22	...	41 35.97	...	13 47.3	R	8	...	59 37.12	...	54 5.7	M
24	...	41 36.01	...	13 46.1	R	Nov. 8	...	59 37.06	...	54 5.3	R
30	...	41 35.81	...	13 47.5	R						
Oct. 1	...	41 36.18	...	13 45.3	M						
544 10 Cephei ν						549 17 Cephei ξ —2nd.					
Sep. 15	...	21 41 59.00	...	29 25 56.4	R	Sep. 17	...	22 0 19.00	...	25 57 21.3	R
17	...	41 59.05	...	25 57.2	R	18	...	0 18.87	...	57 21.7	R
21	...	41 58.96	...	25 57.7	R	21	...	0 18.79	...	57 21.6	R
23	...	41 59.12	...	25 57.2	R	22	...	0 18.97	...	57 20.4	R
			23	...	0 19.21	...	57 21.2	R
545 U Cephei, Var. 5.						550 Anon.					
Oct. 2	...	21 44 53.05	...	20 24 19.0	M	Oct. 21	9.5	22 1 43.95	...	98 31 57.0	M
4	6.5	44 53.80	...	24 19.1	M	27	9.5	1 44.12	...	31 56.3	M
5	6.8	44 53.69	...	24 20.6	M	28	9.5	1 44.08	...	31 56.8	M
6	7.0	44 53.84	...	24 18.9	M	30	9.5	1 43.93	...	31 58.3	M
7	7.0	44 53.60	...	24 19.2	M	Nov. 2	9.6	1 44.02	5	31 57.6	R
546 16 Pegasi.						551 15 Piscis Australis.					
Sep. 17	...	21 47 36.06	...	64 38 18.6	R	Sep. 6	5.6	22 3 6.58	...	123 8 14.0	R
22	...	47 36.10	...	38 16.6	R	15	5.6	3 6.80	...	8 12.7	R
23	...	47 36.16	...	38 16.4	R						
Oct. 8	...	47 36.13	...	38 18.6	M						

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880.	No. of Wires.	Mean Polar Distance 1880.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880.	No. of Wires.	Mean Polar Distance 1880.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
564		<i>R. P. L. 150.</i>				569		<i>ρ Gruis.</i>			
Sep. 15	...	22 22 37.77	3	4 29 46.6	R	Sep. 22	5.5	22 36 32.15	...	132 2 18.8	R
Oct. 20	...	22 37.64	3	29 47.0	M	24	5.5	36 32.10	...	2 20.4	R
Nov. 6	...	22 87.07	3	29 48.1	R	30	5.5	36 32.16	...	2 23.0	R
						Oct. 1	...	36 32.18	...	2 23.1	M
		<i>R. P. L. 150—s. p.</i>				570		<i>η Gruis.</i>			
May 1	...	22 22 37.27	3	4 29 48.3	R	Oct. 2	...	22 38 15.28	...	144 7 50.2	M
565		<i>7 Lacertæ α</i>				4	5.5	38 15.25	...	7 47.7	M
Sep. 22	...	22 26 20.65	...	40 20 2.0	R	5	5.5	38 15.37	...	7 50.6	M
24	...	26 20.76	5	20 3.2	R						
566		<i>59 Aquarii υ</i>				571		<i>32 Cephei ι</i>			
Sep. 15	5.0	22 28 7.74	...	111 19 18.2	R	Oct. 5	...	22 45 24.49	...	24 25 50.4	M
17	5.0	28 7.65	...	19 18.3	R	7	...	45 24.51	...	25 48.1	M
Oct. 2	...	28 7.69	...	19 18.7	M	9	...	45 24.67	...	25 48.5	M
4	...	28 7.58	...	19 18.3	M						
5	5.5	28 7.72	...	19 18.8	M	572		<i>ρ Indi.</i>			
						Oct. 4	5.5	22 46 17.18	3	160 42 52.6	M
567		<i>62 Aquarii η</i>				6	5.5	46 17.24	...	42 50.4	M
Oct. 7	...	22 29 11.35	...	90 44 6.6	M	8	...	46 17.38	...	42 49.0	M
15	...	29 11.45	...	44 6.1	M						
30	...	29 11.26	...	44 8.1	M	573		<i>73 Aquarii λ</i>			
Nov. 2	...	29 11.26	...	44 6.9	M	Oct. 29	...	22 46 21.17	...	98 13 3.8	M
8	...	29 11.29	...	44 5.6	R	Nov. 5	...	46 21.16	...	13 2.5	R
12	...	29 11.29	...	44 4.7	R	6	...	46 21.13	...	13 1.9	R
16	...	29 11.33	...	44 6.2	R	9	...	46 21.14	...	13 1.1	R
						12	...	46 21.14	...	13 1.9	R
568		<i>42 Pegasi ζ</i>				16	...	46 21.00	...	13 2.8	R
Sep. 23	...	22 35 28.55	...	79 47 39.6	R	17	...	46 21.04	...	13 3.7	R
Oct. 20	...	35 28.39	...	47 38.0	M	574		<i>54 Pegasi α, Markab.</i>			
27	...	35 28.59	...	47 40.4	M	Sep. 30	...	22 58 46.94	...	75 26 24.0	R
28	...	35 28.04	...	47 38.0	M	Nov. 13	...	58 46.90	...	26 24.4	R
Nov. 2	...	35 28.59	...	47 38.9	R	17	...	58 46.87	...	26 25.2	R
5	...	35 28.53	...	47 39.0	R						
6	...	35 28.53	...	47 38.1	R	575		<i>86 Aquarii ε¹.</i>			
9	...	35 28.45	...	47 40.1	R	Oct. 1	...	23 0 14.09	...	114 23 26.4	M
13	...	35 28.54	...	47 40.1	R	5	...	0 13.99	...	23 28.0	M
						7	...	0 13.89	...	23 27.5	M

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No of Wires.	Mean Polar Distance 1880. " "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. " "	Observer.
576 <i>56 Pegasi.</i>						582 <i>95 Aquarii ψ^3</i>					
Oct. 2	...	23 1 15 ²⁵...	...	65 10 42.8	M	Oct. 2	...	23 12 43.24	...	100 15 58.3	M
8	...	1 15 ²³...	...	10 43.3	M	4	5.0	12 43.07	...	16 0.3	M
13	...	1 15 ²²...	...	10 42.4	M	7	5.5	12 43.23	...	16 0.4	M
16	...	1 16.01	...	10 44.0	M	9	5.5	12 43.13	...	15 58.4	M
Nov. 6	...	1 15 ²⁵...	...	10 43.9	R	13	...	12 43.11	...	15 58.4	M
577 <i>88 Aquarii ϵ^2.</i>						583 <i>68 Pegasi ν</i>					
Oct. 6	...	23 3 2.76	...	111 49 21.1	M	Oct. 5	...	23 19 23.36	...	67 15 23.5	M
9	...	3 2.77	...	49 22.0	M	6	...	19 23.29	...	15 23.4	M
15	...	3 2.58	...	49 22.0	M	584 <i>8 Piscium κ</i>					
Nov. 5	...	3 2.86	...	49 21.2	R	Oct. 1	...	23 20 46.77	...	89 24 2.0	M
8	...	3 2.79	...	49 23.0	R	4	...	20 46.90	...	24 3.2	M
578 <i>ι Gruis.</i>						25	...	20 46.84	...	24 3.2	M
Oct. 21	5.0	23 3 33.66	...	135 53 46.6	M	Nov. 6	...	20 46.82	...	24 3.0	R
25	...	3 33.72	...	53 48.6	M	12	...	20 46.76	...	24 1.3	R
27	5.5	3 33.87	...	53 48.8	M	16	...	20 46.86	...	24 3.0	R
579 <i>33 Cephei π</i>						585 <i>Radcliffe 6084.</i>					
Oct. 20	...	23 4 5.07	...	15 15 37.3	M	Oct. 2	...	23 22 12.21	6	20 17 58.7	M
26	...	4 5.19	...	15 38.8	M	7	5.5	22 12.36	...	18 0.5	M
28	...	4 4.73	...	15 40.2	M	8	5.5	22 11.93	...	18 0.5	M
Nov. 9	...	4 5.10	...	15 38.4	R	13	...	22 12.20	...	17 58.0	M
12	...	4 4.96	...	15 38.8	R	586 <i>R. P. L. 158--s.p.</i>					
580 <i>6 Piscium γ</i>						Mar. 17	...	23 27 48.20	3	3 21 18.4	T
Oct. 25	...	23 10 56.73	...	87 22 22.3	M	Apr. 17	...	27 49.58	3	21 17.9	T
Nov. 1	...	10 56.61	...	22 23.0	R	May 6	...	27 47.61	3	21 19.3	R
6	...	10 56.56	...	22 21.4	R	10	...	27 49.78	3	21 19.8	R
9	...	10 56.56	...	22 21.3	R	587 <i>Anon.</i>					
11	...	10 56.60	...	22 21.0	R	Oct. 21	9.0	23 29 48.36	...	138 7 49.7	M
13	...	10 56.66	...	22 24.0	R	27	9.0	29 18.36	...	7 47.2	M
16	...	10 56.60	...	22 22.4	R	588 <i>16 Andromedæ λ</i>					
581 <i>8 Andromedæ.</i>						Oct. 5	...	23 31 41.19	...	44 11 31.2	M
Oct. 1	...	23 12 11.00	...	41 38 21.3	M	8	...	31 41.42	...	11 29.5	M

Separate Results of Madras Meridian Circle Observations in 1880.

Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1880. h. m. s.	No. of Wires.	Mean Polar Distance 1880. ° ' "	Observer.
589 17 <i>Andromedæ</i> ι						597 106 <i>Aquarii</i> ι^1					
Oct. 6	...	23 32 14.87	...	47 23 45.2	M	Oct. 6	5.5	23 37 58.35	...	108 56 32.8	M
9	...	32 15.17	...	23 44.2	M	7	5.5	37 58.53	...	56 33.7	M
18	...	32 14.95	...	23 41.8	M	8	5.5	37 58.44	...	56 33.5	M
590 θ <i>Phœnicis</i> —2nd.						598 <i>Radcliffe</i> 6184.					
Oct. 26	...	23 38 1.24	...	187 18 13.2	M	Oct. 9	5.5	23 42 10.68	...	23 51 34.7	M
Nov. 5	...	38 1.25	...	18 13.4	B	599 δ <i>Sculptoris</i> .					
8	...	38 1.25	...	18 13.7	B	Nov. 17	...	23 42 40.32	...	118 47 38.9	R
591 <i>Anon.</i>						600 28 <i>Piscium</i> ω					
Oct. 28	9.5	23 38 26.16	...	138 15 15.6	M	Oct. 5	...	23 53 8.88	...	38 48 2.2	M
30	9.5	38 26.09	...	15 15.7	M	26	...	53 9.02	...	48 2.5	M
Nov. 6	9.5	38 26.19	...	15 15.4	B	28	...	53 9.02	...	48 2.8	M
9	9.5	38 26.13	...	15 12.5	B	29	...	53 8.82	...	48 2.9	M
12	9.6	38 26.06	...	15 14.3	B	30	...	53 8.97	...	48 3.9	M
592 <i>Anon.</i>						Nov. 9	...	53 8.89	...	48 1.6	R
Nov. 16	6.7	23 38 32.78	...	137 59 28.3	R	22	...	53 8.94	...	48 2.4	R
17	6.7	38 32.93	...	59 28.7	B	601 <i>Anon.</i>					
593 102 <i>Aquarii</i> ω^1						Dec. 7	10.5	23 54 0.44	3	101 21 23.2	R
Oct. 2	...	23 33 33.56	...	104 53 6.4	M	8	10.5	54 0.43	3	21 24.4	R
14	...	33 33.60	...	53 5.7	M	602 τ <i>Phœnicis</i> .					
15	...	33 23.52	...	53 7.5	M	Oct. 6	5.5	23 54 54.40	...	139 28 40.3	M
20	...	33 33.54	...	53 6.6	M	9	5.5	54 54.58	...	28 39.7	M
Nov. 11	...	33 33.54	...	53 7.1	R	13	...	54 54.48	...	28 39.8	M
594 17 <i>Piscium</i> ι						15	...	54 54.41	...	28 40.2	M
Oct. 1	...	23 38 46.68	...	85 1 24.4	M	20	...	54 54.31	...	28 41.8	M
595 19 <i>Andromedæ</i> κ						603 <i>Radcliffe</i> 6265.					
Oct. 16	...	23 34 29.83	...	46 19 46.3	M	Oct. 7	5.5	23 55 29.90	...	29 26 42.3	M
25	...	34 29.95	...	19 47.7	M	14	...	55 29.89	...	26 41.0	M
29	...	34 29.84	...	19 47.8	M	16	...	55 29.75	...	26 42.5	M
596 78 <i>Pegasi</i> .						21	5.5	55 29.75	...	26 44.9	M
Oct. 5	...	23 37 57.36	...	61 18 7.6	M	604 ζ <i>Sculptoris</i> .					
						Oct. 8	...	23 56 10.72	...	120 23 21.8	M

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1880

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
1	21 Androm. α (<i>Alpherat</i>) ..	2.1	...	0	2	11.15	61	34	20.0	3	0.89
2	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	7	3.40	75	28	59.7	7	0.86
3	8 Ceti :	3.6	...	0	13	18.72	99	29	20.7	9	0.91
4	12 Ceti	6.2	...	0	23	54.82	94	37	14.6	8	0.91
5	Taylor 120	6.0	1	0	24	37.53	138	52	32.3	2	0.78
6	14 Cassiopeiæ λ	4.8	...	0	25	9.25	36	8	22.7	4	0.79
7	T Piscium, Var. 3	10.5	1	0	26	47.35	76	3	41.4	1	0.94
8	β^3 Tucanæ	5.5	...	0	27	15.45	153	41	34.0	4	0.83
9	Lacaille 139	7.0	1	0	28	17.22	161	55	44.6	5	0.90
10	ξ Phœnicis	5.3	3	0	36	17.92	147	9	42.0	4	0.82
11	ρ Tucanæ	5.6	3	0	37	20.43	156	7	39.4	4	0.89
12	16 Ceti β	2.1	...	0	37	33.78	108	38	44.0	9	0.94
13	η Phœnicis	4.5	...	0	37	57.50	148	7	18.7	3	0.84
14	17 Ceti ϕ^1	4.9	...	0	38	8.03	101	15	48.0	4	0.81
15	λ^3 Sculptoris	5.8	2	0	38	23.79	129	4	57.7	4	0.81
16	63 Piscium δ	4.6	...	0	42	27.35	83	4	4.1	9	0.92
17	T Cephei, Var.	7.8	10	0	51	43.39	8	46	18.6	10	0.93
18	2 Ursæ Minoris	4.5	...	0	52	36.33	4	23	14.5	4	0.83
19	R. P. L. 14	6.2	1	0	56	12.47	3	29	41.5	1	0.93
20	71 Piscium ϵ	4.5	...	0	56	42.96	82	45	22.1	10	0.85
21	1 Ursæ Minoris α (<i>Polaris</i>)	2.2	...	1	14	46.74	1	19	51.2	1	0.87
22	45 Ceti θ	3.3	...	1	18	1.43	98	48	9.7	5	0.88
23	U Ceti, Var. 5	7.5	9	1	19	47.29	94	33	6.1	10	0.89
24	48 Andromedæ ω	4.8	...	1	20	28.74	45	12	46.6	4	0.84
25	R Sculptoris, Var. 1	7.0	5	1	21	26.47	123	9	57.0	5	0.94
26	38 Cassiopeiæ	5.9	...	1	23	19.38	20	21	11.8	4	0.61
27	R Piscium Var. 1	9.6	2	1	24	26.88	87	44	22.1	2	0.93
28	99 Piscium η	3.7	...	1	25	3.75	75	16	24.0	9	0.94
29	106 Piscium ν	4.7	...	1	35	11.21	85	7	12.0	10	0.96
30	Taylor 563	5.8	4	1	36	53.79	140	38	41.1	5	0.83
31	Lacaille 507	5.7	3	1	37	41.40	151	23	40.1	3	0.87
32	α^1 Eridani	5.7	4	1	37	51.76	144	20	31.4	4	0.87
33	110 Piscium σ	4.4	...	1	39	3.47	81	26	49.5	4	0.49
34	6 Arietis β	2.8	...	1	48	0.63	69	46	45.7	7	0.97
35	η^1 Hydri, Var.	7.5	4	1	49	32.77	158	32	10.0	7	0.79

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
1	21 Andromedæ α ...	+ 3·0792	+ 0·0182	+ 0·010	- 20·053	+ 0·013	+ 0·16	3215
2	88 Pegasi γ ...	+ 3·0829	+ 0·0100	- 0·001	- 20·045	+ 0·022	+ 0·01	1
3	8 Ceti ϵ ...	+ 3·0594	- 0·0023	- 0·003	- 20·020	+ 0·034	+ 0·03	14
4	12 Ceti ...	+ 3·0610	+ 0·0008	- 0·000	- 19·945	+ 0·055	+ 0·01	38
5	Taylor 120 ...	+ 2·9080	- 0·0270	...	- 19·938	+ 0·054	...	...
6	14 Cassiopeiæ λ ...	+ 3·2729	+ 0·0490	+ 0·003	- 19·934	+ 0·061	+ 0·03	40
7	T Piscium, Var. 3 ...	+ 3·1084	+ 0·0108	...	- 19·933	+ 0·058	...	...
8	β^3 Tucanæ ...	+ 2·7516	- 0·0441	+ 0·012	- 19·913	+ 0·056	- 0·03	Stone
9	Lacaille 139 ...	+ 2·5678	- 0·0577	0·000	- 19·902	+ 0·055	0·00	Stone
10	ξ Phœnicis ...	+ 2·7456	- 0·0321	...	- 19·803	+ 0·072	...	...
11	ρ Tucanæ ...	+ 2·5823	- 0·0414	...	- 19·789	+ 0·069	...	...
12	16 Ceti β ...	+ 2·9987	- 0·0055	+ 0·015	- 19·785	+ 0·080	- 0·03	70
13	η Phœnicis ...	+ 2·7179	- 0·0324	...	- 19·779	+ 0·073	...	...
14	17 Ceti ϕ^1 ...	+ 3·0282	- 0·0017	- 0·003	- 19·777	+ 0·081	+ 0·11	71
15	λ^2 Sculptoris ...	+ 2·8912	- 0·0170	...	- 19·773	+ 0·078	...	...
16	63 Piscium δ ...	+ 3·1022	+ 0·0079	+ 0·004	- 19·711	+ 0·091	+ 0·04	85
17	T Cephei, Var. ...	+ 5·0110	+ 0·4307	...	- 19·545	+ 0·172	...	...
18	2 Ursæ Minoris ...	+ 7·0353	+ 1·3595	+ 0·068	- 19·528	+ 0·242	+ 0·01	92
19	R. P. L. 14 ...	+ 8·3874	+ 2·1178	+ 0·054	- 19·454	+ 0·305	+ 0·02	95
20	71 Piscium ϵ ...	+ 3·1139	+ 0·0087	- 0·007	- 19·443	+ 0·119	- 0·04	113
21	1 Ursæ Minoris α ...	+ 21·5114	+ 15·8292	+ 0·111	- 18·997	+ 1·013	+ 0·00	102
22	45 Ceti 0 ...	+ 3·0032	+ 0·0018	- 0·007	- 18·903	+ 0·154	+ 0·20	184
23	U Ceti, Var. 5 ...	+ 3·0360	+ 0·0039	...	- 18·852	+ 0·159	...	...
24	48 Andromedæ ω ...	+ 3·5288	+ 0·0420	+ 0·031	- 18·831	+ 0·184	+ 0·10	186
25	R Sculptoris, Var. 1 ...	+ 2·7683	- 0·0085	...	- 18·802	+ 0·148	...	...
26	38 Cassiopeiæ ...	+ 4·3390	+ 0·1427	+ 0·026	- 18·775	+ 0·220	+ 0·07	188
27	R Piscium, Var. 1 ...	+ 3·0914	+ 0·0073	...	- 18·708	+ 0·169	...	...
28	99 Piscium η ...	+ 3·1997	+ 0·0141	- 0·000	- 18·687	+ 0·177	+ 0·00	203
29	106 Piscium ν ...	+ 3·1184	+ 0·0091	- 0·003	- 18·349	+ 0·191	- 0·01	228
30	Taylor 568 ...	+ 2·4035	- 0·0117	...	- 18·288	+ 0·152	...	...
31	Lacaille 507 ...	+ 2·0587	- 0·0099	...	- 18·259	+ 0·132	...	...
32	q^1 Eridani ...	+ 2·3005	- 0·0118	...	- 18·253	+ 0·147	...	...
33	110 Piscium σ ...	+ 3·1566	+ 0·0111	+ 0·003	- 18·210	+ 0·200	- 0·06	232
34	6 Arietis β ...	+ 3·2959	+ 0·0183	+ 0·005	- 17·868	+ 0·226	+ 0·10	252
35	η^1 Hydri, Var. ...	+ 1·5083	+ 0·0091	...	- 17·807	+ 0·109	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	η^3 Hydri ...	4.9	...	1	51	53.65	158	14	19.0	3	0.92
37	48 Cassiopeiae ...	4.6	...	1	52	7.07	19	40	32.4	4	0.64
38	50 Cassiopeiae ...	4.1	...	1	53	12.77	18	9	37.2	4	0.86
39	Lacaille 616 ...	6.2	...	1	56	32.51	156	38	52.7	1	0.01
40	χ Phœnicis ...	5.0	2	1	56	53.64	135	17	30.5	3	0.58
41	δ Arietis, Var. 2 ...	10.2	4	1	58	10.96	78	2	55.7	4	0.98
42	13 Arietis α ...	2.0	...	2	0	24.53	67	6	20.7	4	0.91
43	67 Ceti ...	5.5	...	2	10	59.84	96	58	31.8	13	0.95
44	73 Ceti ξ^2 ...	4.4	...	2	21	46.76	82	4	42.3	2	0.93
45	R. P. L. 26 ...	8.0	...	2	26	42.45	3	28	38.0	7	0.86
46	35 Arietis ...	4.7	...	2	36	24.58	62	48	13.6	1	0.02
47	ζ Horologii ...	5.6	3	2	36	55.56	145	3	52.4	4	0.91
48	Lalande 5033 ...	8.0	6	2	36	58.01	72	57	45.2	6	0.04
49	86 Ceti γ^2 ...	3.6	...	2	37	4.95	87	16	13.4	3	0.66
50	36 Arietis ...	7.0	6	2	37	37.44	72	44	41.8	6	0.32
51	ϵ Hydri ...	5.3	4	2	37	44.80	158	46	55.3	5	0.94
52	Lacaille 893 ...	5.6	1	2	41	21.00	157	13	11.7	1	0.90
53	15 Persei η ...	3.9	...	2	41	56.98	34	36	13.2	5	0.77
54	γ Horologii ...	5.6	2	2	42	53.66	154	12	30.3	2	0.96
55	16 Persei ...	4.4	...	2	43	0.55	52	10	35.6	5	0.97
56	ζ Hydri ...	5.0	1	2	43	41.84	158	7	18.1	1	0.99
57	ν Fornacis — 1st ...	5.7	4	2	43	50.59	127	54	9.8	5	0.93
58	γ^1 Fornacis ...	5.7	3	2	44	32.11	115	3	16.4	3	0.94
59	2 Eridani τ^2 ...	4.8	...	2	45	35.67	111	29	58.4	2	0.06
60	18 Persei τ ...	4.0	...	2	45	45.27	37	43	46.5	5	0.96
61	η^3 Fornacis ...	5.8	2	2	45	40.48	126	10	14.0	2	0.03
62	44 Arietis ρ^1 ...	7.0	2	2	48	11.80	72	45	15.6	2	0.02
63	46 Arietis ρ^3 ...	5.5	...	2	49	39.83	72	27	22.6	6	0.04
64	22 Persei π ...	4.7	...	2	51	5.48	50	49	7.2	3	0.62
65	Lalande 5456 ...	8.5	6	2	51	10.93	72	40	12.3	6	0.33
66	6 Eridani ...	6.1	...	2	52	45.46	114	5	20.1	2	0.91
67	50 Arietis ...	7.0	1	2	53	46.84	72	28	19.8	2	0.02
68	92 Ceti α (<i>Menkar</i>) ...	2.7	...	2	56	0.32	86	22	54.2	1	0.99
69	23 Persei γ ...	3.1	...	2	56	6.80	36	57	52.4	2	0.50
70	Radcliffe 860 ...	5.0	3	2	56	31.73	83	46	0.7	4	0.95

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
36	η^a Hydri ...	+ 1.5014	+ 0.0095	...	- 17.711	+ 0.111	...	...
37	48 Cassiopeiae ...	+ 4.8293	+ 0.1641	- 0.014	- 17.701	+ 0.337	+ 0.01	258
38	50 Cassiopeiae ...	+ 5.0048	+ 0.1866	- 0.011	- 17.656	+ 0.352	- 0.02	260
39	Lacaille 616 ...	+ 1.5647	+ 0.0070	...	- 17.517	+ 0.119	...	...
40	χ Phœnicis ...	+ 2.4129	- 0.0073	- 0.004	- 17.502	+ 0.180	+ 0.02	Stone
41	δ Arietis, Var. 2 ...	+ 3.2119	+ 0.0134	...	- 17.445	+ 0.239	...	...
42	13 Arietis α ...	+ 3.3555	+ 0.0203	+ 0.013	- 17.349	+ 0.252	+ 0.13	287
43	67 Ceti ...	+ 2.9838	+ 0.0019	+ 0.004	- 16.866	+ 0.242	+ 0.11	321
44	73 Ceti ξ^a ...	+ 3.1802	+ 0.0117	+ 0.001	- 16.338	+ 0.276	+ 0.00	347
45	R. P. L. 26 ...	+ 16.2120	+ 3.7711	...	- 16.084	+ 1.419	...	...
46	35 Arietis ...	+ 3.5057	+ 0.0233	- 0.002	- 15.563	+ 0.329	+ 0.01	380
47	ζ Horologii ...	+ 1.8618	+ 0.0017	...	- 15.534	+ 0.179	...	...
48	Lalande 5033 ...	+ 3.3314	+ 0.0165	...	- 15.532	+ 0.314	...	...
49	86 Ceti γ^a ...	+ 3.1127	+ 0.0094	- 0.011	- 15.525	+ 0.294	+ 0.16	383
50	36 Arietis ...	+ 3.3359	+ 0.0166	+ 0.002	- 15.495	+ 0.315	+ 0.03	384
51	ϵ Hydri ...	+ 0.8849	+ 0.0345	+ 0.017	- 15.489	+ 0.089	0.00	Stone
52	Lacaille 893 ...	+ 1.0117	+ 0.0279	+ 0.017	- 15.286	+ 0.102	+ 0.06	Stone
53	15 Persæi η ...	+ 4.3305	+ 0.0677	+ 0.002	- 15.252	+ 0.416	+ 0.03	Bombay
54	γ Horologii ...	+ 1.2674	+ 0.0175	...	- 15.198	+ 0.127	...	...
55	16 Persæi ...	+ 3.7499	+ 0.0334	+ 0.017	- 15.192	+ 0.363	+ 0.06	394
56	ζ Hydri ...	+ 0.8914	+ 0.0329	+ 0.015	- 15.152	+ 0.092	- 0.03	Stone
57	ν Fornacis—1st ...	+ 2.3899	- 0.0012	...	- 15.145	+ 0.235	...	...
58	γ^1 Fornacis ...	+ 2.6611	+ 0.0008	...	- 15.104	+ 0.261	...	...
59	2 Eridani τ^a ...	+ 2.7241	+ 0.0016	- 0.006	- 15.044	+ 0.268	+ 0.02	404
60	18 Persæi τ ...	+ 4.2159	+ 0.0583	- 0.002	- 15.033	+ 0.412	+ 0.01	399
61	η^a Fornacis ...	+ 2.4252	- 0.0008	...	- 15.030	+ 0.240	...	...
62	44 Arietis ρ^1 ...	+ 3.3502	+ 0.0164	...	- 14.891	+ 0.333	...	...
63	46 Arietis ρ^3 ...	+ 3.3573	+ 0.0165	+ 0.019	- 14.805	+ 0.336	+ 0.19	408
64	22 Persæi π ...	+ 3.8122	+ 0.0346	+ 0.001	- 14.721	+ 0.383	+ 0.03	411
65	Lalande 5456 ...	+ 3.3557	+ 0.0164	...	- 14.715	+ 0.338	...	...
66	6 Eridani ...	+ 2.6632	+ 0.0015	- 0.001	- 14.621	+ 0.272	+ 0.09	423
67	50 Arietis ...	+ 3.3626	+ 0.0164	- 0.003	- 14.561	+ 0.343	0.00	420
68	92 Ceti α ...	+ 3.1310	+ 0.0098	- 0.003	- 14.425	+ 0.323	+ 0.07	428
69	23 Persæi γ ...	+ 4.3069	+ 0.0594	- 0.002	- 14.419	+ 0.442	+ 0.00	422
70	Radcliffe 860 ...	+ 4.4648	+ 0.0689	...	- 14.393	+ 0.458	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
71	Brisbane 432	5.0	4	2	56	32.01	154	32	56.1	5	0.93
72	9 Eridani ρ^2	5.4	...	2	56	48.80	98	9	28.9	4	0.69
73	Lalande 5701	9.0	2	2	59	1.46	72	17	16.5	2	0.01
74	ι Persei	4.1	...	3	0	24.71	40	50	47.4	5	0.22
75	53 Arietis	7.8	1	3	0	40.21	72	35	3.1	1	0.02
76	27 Persei κ	4.0	...	3	1	24.33	45	35	55.3	1	0.03
77	R. P. L. 33	5.8	...	3	4	8.59	5	31	5.1	3	0.60
78	57 Arietis δ	4.5	...	3	4	40.08	70	43	40.5	5	0.95
79	Radcliffe 914	5.9	2	3	9	20.88	24	47	16.9	2	0.05
80	Lalande 6095	8.4	2	3	11	32.87	72	15	56.7	3	0.03
81	... ..	9.4	4	3	11	52.36	71	57	56.9	4	0.04
82	15 Eridani	5.0	...	3	13	3.72	112	57	1.8	1	0.06
83	96 Ceti κ^1	5.0	...	3	13	4.10	87	4	15.3	2	0.06
84	ϵ Eridani	4.4	...	3	15	8.28	133	31	40.7	2	0.88
85	ζ^1 Reticuli	5.7	3	3	15	10.03	153	2	7.3	4	0.71
86	ζ^2 Reticuli	5.6	4	3	15	36.58	152	57	56.9	4	0.94
87	Lacaille 1092	5.3	4	3	16	37.49	157	21	48.7	5	0.97
88	... ..	9.2	3	3	16	50.10	71	52	22.8	3	0.03
89	1 Tauri ϵ , Var. 5 ...	Var.	...	3	18	21.46	81	23	40.1	1	0.92
90	Lalande 6341	7.7	5	3	20	12.32	71	39	53.5	5	0.03
91	Radcliffe 962	4.8	...	3	20	20.61	31	32	18.3	2	0.07
92	Radcliffe 969	5.0	3	3	20	51.49	34	57	52.5	3	0.62
93	... ..	10.0	4	3	21	18.20	71	56	11.0	4	0.97
94	35 Persei σ	4.4	...	3	22	7.08	42	25	13.7	3	0.66
95	... ..	9.4	7	3	22	56.39	71	40	32.3	7	0.67
96	17 Eridani	4.8	...	3	24	39.82	95	29	16.1	2	0.94
97	Lalande 6483	9.1	4	3	24	52.43	71	36	37.9	4	0.48
98	ζ Eridani	6.4	...	3	25	56.97	131	46	33.5	2	0.09
99	18 Eridani ϵ	3.7	...	3	27	16.58	99	51	55.1	5	0.21
100	R. P. L. 34	5.9	...	3	27	21.94	3	44	5.0	2	0.99
101	Lacaille 1164	6.1	...	3	29	38.40	156	53	45.8	2	0.09
102	Lalande 6656	9.0	1	3	30	29.85	71	47	59.9	1	0.01
103	Lacaille 1188	6.0	2	3	33	4.12	156	9	48.2	3	0.05
104	τ Fornacis	6.0	2	3	33	48.21	118	20	11.0	3	0.06
105	Radcliffe 1089	6.0	3	3	35	33.33	27	2	6.5	3	0.07

77.—Groombridge 595. 73—75—80—81—88—90—93—95—97—102.—Comparison stars for Mars in 1879.
100.—Groombridge 642.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
71	Brisbane 462 ...	+ 1.1160	+ 0.0215	...	- 1.4393	+ 0.119	...	...
72	9 Eridani ρ^a ...	+ 2.9387	+ 0.0057	+ 0.001	- 1.4376	+ 0.304	- 0.01	432
73	Lalande 5701 ...	+ 3.3729	+ 0.0164	...	- 1.4240	+ 0.352	...	...
74	ϵ Persei ...	+ 4.1677	+ 0.0497	+ 0.127	- 1.4155	+ 0.435	+ 0.06	Romberg
75	53 Arietis ...	+ 3.3697	+ 0.0161	- 0.003	- 1.4138	+ 0.354	- 0.01	439
76	27 Persei κ ...	+ 4.0038	+ 0.0410	+ 0.015	- 1.4093	+ 0.421	+ 0.16	438
77	R. P. L. 33 ...	+ 13.0323	+ 1.6105	+ 0.045	- 13.931	+ 1.374	+ 0.12	402
78	57 Arietis δ ...	+ 3.4007	+ 0.0171	+ 0.010	- 13.882	+ 0.364	- 0.01	446
79	Radcliffe 914 ...	+ 5.2035	+ 0.1120	...	- 13.575	+ 0.563	...	...
80	Lalande 5095 ...	+ 3.3894	+ 0.0159	...	- 13.449	+ 0.367	...	...
81	... ..	+ 3.3956	+ 0.0161	...	- 13.427	+ 0.373	...	...
82	15 Eridani ...	+ 2.6498	+ 0.0024	- 0.000	- 13.349	+ 0.294	- 0.01	466
83	96 Ceti κ^1 ...	+ 3.1234	+ 0.0094	+ 0.016	- 13.350	+ 0.345	- 0.11	463
84	ϵ Eridani ...	+ 2.1170	+ 0.0017	+ 0.266	- 13.214	+ 0.238	- 0.75	Stone
85	ζ^1 Reticuli ...	+ 1.0953	+ 0.0203	+ 0.194	- 13.212	+ 0.126	- 0.65	Stone
86	ζ^2 Reticuli ...	+ 1.0981	+ 0.0201	+ 0.190	- 13.184	+ 0.127	- 0.65	Stone
87	Lacaille 1092 ...	+ 0.6170	+ 0.0366	+ 0.011	- 13.115	+ 0.077	+ 0.15	Stone
88	... ..	+ 3.4036	+ 0.0160	...	- 13.102	+ 0.381	...	...
89	1 Tauri σ ...	+ 3.2264	+ 0.0115	- 0.005	- 13.000	+ 0.364	+ 0.07	477
90	Lalande 6341 ...	+ 3.4119	+ 0.0159	...	- 12.877	+ 0.387	...	...
91	Radcliffe 962 ...	+ 4.7432	+ 0.0728	...	- 12.867	+ 0.535	...	...
92	Radcliffe 969 ...	+ 4.5414	+ 0.0613	...	- 12.837	+ 0.515	...	...
93	... ..	+ 3.4079	+ 0.0158	...	- 12.803	+ 0.387	...	...
94	35 Persei σ ...	+ 4.2017	+ 0.0436	0.000	- 12.743	+ 0.477	- 0.02	479
95	... ..	+ 3.4151	+ 0.0159	...	- 12.692	+ 0.390	...	...
96	17 Eridani ...	+ 2.9722	+ 0.0066	- 0.001	- 12.575	+ 0.342	- 0.00	487
97	Lalande 6483 ...	+ 3.4188	+ 0.0157	...	- 12.560	+ 0.393	...	...
98	ζ Eridani ...	+ 2.1378	+ 0.0021	...	- 12.488	+ 0.249	...	...
99	18 Eridani ϵ ...	+ 2.8896	+ 0.0055	- 0.068	- 12.396	+ 0.336	- 0.01	493
100	R. P. L. 34 ...	+ 19.1816	+ 3.2508	+ 0.136	- 12.392	+ 2.210	+ 0.06	Gr.
101	Lacaille 1164 ...	+ 0.5891	+ 0.0357	...	- 12.233	+ 0.073	...	...
102	Lalande 6656 ...	+ 3.4216	+ 0.0154	...	- 12.174	+ 0.401	...	...
103	Lacaille 1188 ...	+ 0.6473	+ 0.0326	...	- 11.994	+ 0.080	...	...
104	τ Fornacis ...	+ 2.4931	+ 0.0023	...	- 11.942	+ 0.297	...	...
105	Radcliffe 1039 ...	+ 5.1899	+ 0.0892	...	- 11.819	+ 0.615	...	...

100.—Proper motions from *Greenwich Catalogue*, 1872.

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
106	40 Persei <i>o</i> ...	5.0	...	3	36	47.74	58	5	36.3	1	0.02
107	41 Persei <i>v</i> ...	4.0	...	3	37	2.75	47	48	5.2	4	0.09
108	8 Fornacis ...	5.4	5	3	37	28.42	122	19	20.5	5	0.79
109	16 Tauri (<i>Celano</i>) ...	6.5	...	3	37	40.24	66	5	22.2	2	0.63
110	γ Camelopardi ...	4.6	...	3	37	42.80	19	2	21.8	1	0.99
111	19 Tauri (<i>Taygeta</i>) ...	4.4	...	3	38	4.00	65	54	38.3	5	0.94
112	Radcliffe 1053 ...	5.3	2	3	38	32.92	24	50	40.7	3	0.40
113	20 Tauri (<i>Maia</i>) ...	4.0	...	3	38	41.27	66	0	31.5	3	0.97
114	21 Tauri (<i>k Asterope</i>) ...	7.0	3	3	38	45.10	65	49	16.7	3	0.97
115	22 Tauri (<i>l Asterope</i>) ...	7.0	1	3	38	54.02	65	50	52.2	1	0.93
116	23 Tauri (<i>Merope</i>) ...	4.2	...	3	39	12.37	66	25	37.3	2	0.95
117	25 Tauri η (<i>Alcyone</i>) ...	3.0	...	3	40	21.11	66	16	2.3	1	0.06
118	W. B. N. III. 883 ...	9.2	2	3	41	3.53	71	42	30.7	2	0.02
119	Taylor 1304 ...	5.8	2	3	41	32.36	137	44	3.0	3	0.06
120	27 Tauri (<i>Atlas</i>) ...	3.8	...	3	42	1.63	66	18	52.9	4	0.73
121	28 Tauri (<i>Pleione</i>) ...	5.6	2	3	42	2.80	66	13	52.8	3	0.90
122	28 Eridani γ^1 ...	4.8	...	3	42	29.90	114	14	51.0	5	0.44
123	f^1 Eridani—1st ...	5.5	...	3	44	9.93	127	59	24.3	4	0.08
124	f^2 Eridani ...	4.8	...	3	44	10.08	127	59	16.6	5	0.25
125	Lalande 7181 ...	9.4	1	3	45	23.93	71	26	34.1	1	0.03
126	W Tauri, var. ...	8.0	7	3	46	45.79	82	35	6.6	7	0.98
127	Radcliffe 1089 ...	5.5	2	3	46	50.74	27	16	54.1	3	0.06
128	v^3 Eridani ...	5.3	...	3	49	4.61	125	5	17.6	3	0.07
129	45 Persei ϵ ...	3.0	...	3	49	48.31	50	20	19.5	2	0.04
130	34 Eridani γ^1 ...	3.0	...	3	52	25.68	103	51	3.4	3	0.97
131	35 Eridani ...	5.2	...	3	55	27.21	91	53	13.5	2	0.07
132	38 Tauri <i>v</i> ...	4.0	...	3	56	46.47	84	20	41.7	3	0.10
133	8 Reticuli ...	5.3	4	3	56	50.83	151	44	24.3	5	0.60
134	37 Tauri A ¹ ...	4.4	...	3	57	36.07	68	14	51.2	10	0.03
135	47 Persei λ ...	4.5	...	3	57	38.78	39	58	33.8	3	0.05
136	Lacaille 1339 ...	8.0	5	3	59	7.36	134	43	15.6	5	0.99
137	γ Reticuli ...	5.0	2	3	59	9.77	152	29	42.6	4	0.53
138	ϵ Reticuli ...	5.1	...	3	59	21.53	151	24	55.9	3	0.11
139	R. P. L. 35 ...	6.7	...	3	59	23.55	4	45	47.8	1	0.97
140	48 Persei <i>c</i> ...	4.3	...	3	59	57.12	42	36	34.0	3	0.05

118—125.—Comparison stars for Mars in 1879.

139.—Groombridge 750.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
106	40 Persei α ...	+ 3.7474	+ 0.0235	- 0.000	- 11.731	+ 0.448	+ 0.00	501
107	41 Persei ν ...	+ 4.0562	+ 0.0336	- 0.002	- 11.714	+ 0.484	+ 0.01	506
108	δ Fornacis ...	+ 2.3848	+ 0.0022	...	- 11.683	+ 0.287	...	...
109	16 Tauri ...	+ 3.5544	+ 0.0180	+ 0.001	- 11.668	+ 0.431	+ 0.06	508
110	γ Camelopardi ...	+ 6.2234	+ 0.1605	- 0.002	- 11.666	+ 0.741	+ 0.05	Romberg
111	19 Tauri ...	+ 3.5590	+ 0.0181	- 0.001	- 11.641	+ 0.427	+ 0.03	511
112	Radeliffe 1053 ...	+ 5.4267	+ 0.1016	...	- 11.606	+ 0.649	...	...
113	20 Tauri ...	+ 3.5578	+ 0.0179	+ 0.000	- 11.597	+ 0.428	+ 0.04	512
114	21 Tauri ...	+ 3.5621	+ 0.0181	+ 0.000	- 11.592	+ 0.427	+ 0.04	513
115	22 Tauri ...	+ 3.5617	+ 0.0181	+ 0.001	- 11.582	+ 0.429	+ 0.04	514
116	23 Tauri ...	+ 3.5490	+ 0.0177	- 0.001	- 11.560	+ 0.427	+ 0.04	516
117	25 Tauri η ...	+ 3.5543	+ 0.0177	- 0.000	- 11.477	+ 0.430	+ 0.04	521
118	W. B. N. III. 883 ...	+ 3.4354	+ 0.0148	...	- 11.426	+ 0.416	...	...
119	Taylor 1304 ...	+ 1.8617	+ 0.0046	...	- 11.393	+ 0.228	...	...
120	27 Tauri ...	+ 3.5557	+ 0.0175	- 0.000	- 11.356	+ 0.432	+ 0.05	527
121	28 Tauri ...	+ 3.5576	+ 0.0175	- 0.001	- 11.355	+ 0.432	+ 0.06	528
122	28 Eridani τ ...	+ 2.5753	+ 0.0030	...	- 11.323	+ 0.315	...	...
123	f^1 Eridani ...	+ 2.2062	+ 0.0026	...	- 11.201	+ 0.272	...	...
124	f^2 Eridani ...	+ 2.2063	+ 0.0026	...	- 11.201	+ 0.272	...	...
125	Lalande 7131 ...	+ 3.4459	+ 0.0146	...	- 11.113	+ 0.423	...	...
126	W Tauri ...	+ 3.2175	+ 0.0101	...	- 11.012	+ 0.397	...	...
127	Radeliffe 1089 ...	+ 5.2304	+ 0.0837	...	- 11.007	+ 0.642	...	...
128	ν^3 Eridani ...	+ 2.2822	+ 0.0026	- 0.003	- 10.843	+ 0.285	+ 0.05	Stone
129	45 Persei ϵ ...	+ 4.0066	+ 0.0289	+ 0.000	- 10.790	+ 0.497	+ 0.02	539
130	34 Eridani γ^1 ...	+ 2.7924	+ 0.0047	+ 0.003	- 10.595	+ 0.351	+ 0.11	546
131	35 Eridani ...	+ 3.0346	+ 0.0072	- 0.001	- 10.369	+ 0.382	+ 0.03	550
132	38 Tauri ν ...	+ 3.1861	+ 0.0093	+ 0.000	- 10.271	+ 0.403	+ 0.01	553
133	δ Retiuli ...	+ 0.9359	+ 0.0196	- 0.004	- 10.265	+ 0.121	+ 0.02	Stone
134	37 Tauri A' ...	+ 3.5315	+ 0.0153	+ 0.005	- 10.209	+ 0.447	+ 0.03	554
135	47 Persei λ ...	+ 4.4451	+ 0.0414	- 0.002	- 10.205	+ 0.561	+ 0.03	549
136	Lacaille 1339 ...	+ 1.9282	+ 0.0042	...	- 10.092	+ 0.247	...	...
137	γ Retiuli ...	+ 0.8533	+ 0.0215	...	- 10.090	+ 0.111	...	...
138	ϵ Retiuli ...	+ 0.9508	+ 0.0190	...	- 10.076	+ 0.124	...	...
139	R. P. L. 35 ...	+ 16.9494	+ 1.8075	+ 0.057	- 10.073	+ 2.141	- 0.05	Gr.
140	48 Persei ϵ ...	+ 4.3308	+ 0.0366	+ 0.002	- 10.030	+ 0.560	+ 0.03	557

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magni- tude.	Estima- tions.	Mean Right Ascension.			Mean Polar Distance.			Observa- tions.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
141	38 Eridani α^1	4.1	...	4	6	0.45	97	9	5.6	7	0.95
142	52 Persei <i>f</i>	4.9	...	4	6	43.41	49	40	17.8	1	0.03
143	39 Eridani <i>A.</i>	4.9	...	4	8	41.04	100	33	17.5	3	0.05
144	40 Eridani α^2	4.5	...	4	9	44.94	97	50	26.4	4	0.04
145	α Horologii	5.0	1	4	10	1.44	132	35	28.5	2	0.07
146	54 Tauri γ	3.9	...	4	12	57.94	74	39	49.6	17	0.23
147	73 Tauri π	4.9	...	4	19	40.54	75	33	31.9	2	0.03
148	74 Tauri ϵ	3.7	...	4	21	36.58	71	5	14.3	7	0.56
149	47 Eridani	5.6	...	4	23	24.68	98	28	59.3	4	0.03
150	87 Tauri α (<i>Aldebaran</i>) ...	1.0	...	4	29	2.08	73	44	1.4	4	0.07
151	88 Tauri δ	4.6	...	4	29	3.69	80	5	13.5	3	0.03
152	90 Tauri c^1	4.3	...	4	31	26.91	77	43	53.0	3	0.05
153	51 Eridani c	5.3	...	4	31	33.87	92	42	53.1	3	0.05
154	... ..	10.0	1	4	34	23.79	130	49	45.5	1	0.13
155	α Caeli	4.6	...	4	36	41.80	132	5	36.1	1	0.01
156	4 Camelopardi	6.4	...	4	38	0.47	33	27	28.5	2	0.02
157	57 Eridani μ	4.3	...	4	39	30.15	93	28	33.4	6	0.19
158	λ Caeli	5.8	2	4	39	47.75	131	17	20.6	2	0.05
159	ζ Caeli	6.0	3	4	41	52.18	129	34	27.4	4	0.08
160	9 Camelopardi α	4.4	...	4	42	7.60	23	51	48.4	5	0.08
161	1 Orionis π^1	3.3	...	4	43	19.63	83	14	59.1	5	0.13
162	2 Orionis π^2	4.4	...	4	44	4.27	81	18	22.6	1	0.01
163	3 Orionis π^3	4.0	...	4	44	48.98	84	36	4.8	3	0.11
164	4 Orionis α^1	5.4	...	4	45	44.66	75	57	2.4	2	0.12
165	ν Caeli	5.3	2	4	46	22.01	131	31	43.3	3	0.10
166	61 Eridani ω	4.2	...	4	47	0.00	95	39	16.5	2	0.15
167	7 Camelopardi	4.5	...	4	47	40.10	36	26	32.3	5	0.31
168	8 Orionis π^5	3.9	...	4	48	0.18	87	45	25.8	5	0.14
169	ϵ^1 Pictoris	5.8	...	4	48	14.88	143	39	59.5	2	0.13
170	9 Orionis α^2	4.3	...	4	49	37.42	76	40	36.5	2	0.03
171	R Eridani, Var.	6.1	7	4	49	55.20	106	36	46.8	7	0.99
172	4 Aurigæ	5.1	...	4	51	6.56	52	17	34.0	3	0.03
173	10 Camelopardi β	4.2	...	4	52	44.81	29	44	8.3	3	0.06
174	8 Aurigæ ζ	4.0	...	4	54	5.47	49	6	4.7	2	0.08
175	63 Eridani	5.7	...	4	54	9.52	100	26	25.0	2	0.08

Observed with the Mulras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
141	38 Eridani α^1 ..	+ 2'9249	+ 0'0058	- 0'001	- 9'568	+ 0'379	- 0'09	568
142	52 Persei <i>f</i> ...	+ 4'0060	+ 0'0267	+ 0'000	- 9'514	+ 0'525	+ 0'03	565
143	39 Eridani A ...	+ 2'8520	+ 0'0052	- 0'003	- 9'361	+ 0'372	+ 0'16	574
144	40 Eridani α^2 ...	+ 2'9092	+ 0'0056	- 0'144	- 9'278	+ 0'380	+ 3'44	578
145	α Horologii ...	+ 1'9821	+ 0'0010	- 0'001	- 9'258	+ 0'260	+ 0'23	Stone
146	54 Tauri γ ...	+ 3'3997	+ 0'0115	+ 0'007	- 9'029	+ 0'446	+ 0'03	583
147	73 Tauri π ...	+ 3'3842	+ 0'0107	- 0'001	- 8'449	+ 0'451	+ 0'02	608
148	74 Tauri ϵ ...	+ 3'4888	+ 0'0120	+ 0'007	- 8'318	+ 0'466	+ 0'03	609
149	47 Eridani ...	+ 2'8886	+ 0'0052	- 0'004	- 7'803	+ 0'391	- 0'01	634
150	87 Tauri α ...	+ 3'4320	+ 0'0105	+ 0'004	- 7'753	+ 0'454	+ 0'18	630
151	88 Tauri d ...	+ 3'2878	+ 0'0088	+ 0'001	- 7'751	+ 0'445	+ 0'05	632
152	90 Tauri c^1 ...	+ 3'3416	+ 0'0093	+ 0'006	- 7'557	+ 0'454	+ 0'01	639
153	51 Eridani c ...	+ 3'0136	+ 0'0060	+ 0'003	- 7'548	+ 0'410	- 0'07	642
154	... ..	+ 1'9967	+ 0'0040	...	- 7'317	+ 0'274	...	...
155	α Cassi ...	+ 1'9435	+ 0'0042	- 0'016	- 7'131	+ 0'268	+ 0'11	Stone
156	4 Camelopardi ...	+ 4'9674	+ 0'0409	+ 0'003	- 7'022	+ 0'681	+ 0'16	649
157	57 Eridani μ ...	+ 2'9961	+ 0'0055	- 0'000	- 6'899	+ 0'413	+ 0'00	657
158	λ Cassi ...	+ 1'9694	+ 0'0040	...	- 6'876	+ 0'273	...	...
159	ζ Cassi ...	+ 2'0309	+ 0'0037	...	- 6'705	+ 0'282	...	...
160	9 Camelopardi α ...	+ 5'9185	+ 0'0693	- 0'003	- 6'683	+ 0'816	- 0'00	Romberg
161	1 Orionis π^1 ...	+ 3'2218	+ 0'0071	+ 0'030	- 6'585	+ 0'447	- 0'02	663
162	2 Orionis π^2 ...	+ 3'2656	+ 0'0075	- 0'001	- 6'523	+ 0'453	+ 0'03	667
163	3 Orionis π^3 ...	+ 3'1919	+ 0'0067	- 0'001	- 6'462	+ 0'443	+ 0'00	670
164	4 Orionis α^1 ...	+ 3'3895	+ 0'0086	- 0'001	- 6'384	+ 0'471	+ 0'06	672
165	ν Cassi ...	+ 1'9489	+ 0'0041	- 0'005	- 6'332	+ 0'273	- 0'10	Stone
166	61 Eridani ω ...	+ 2'9466	+ 0'0050	- 0'004	- 6'280	+ 0'411	- 0'04	676
167	7 Camelopardi ...	+ 4'7935	+ 0'0318	- 0'002	- 6'225	+ 0'667	- 0'01	669
168	8 Orionis π^5 ...	+ 3'1221	+ 0'0061	- 0'000	- 6'197	+ 0'436	+ 0'01	680
169	ϵ^1 Pictoris ...	+ 1'3429	+ 0'0079	...	- 6'177	+ 0'189	...	...
170	9 Orionis α^2 ...	+ 3'3741	+ 0'0082	- 0'006	- 6'061	+ 0'472	+ 0'05	682
171	R Eridani, Var. ...	+ 2'6919	+ 0'0038	...	- 6'037	+ 0'377	...	...
172	4 Aurigo ...	+ 4'0595	+ 0'0165	+ 0'000	- 5'938	+ 0'568	+ 0'10	683
173	10 Camelopardi β ...	+ 5'3128	+ 0'0419	0'000	- 5'800	+ 0'744	+ 0'01	681
174	8 Aurigo ζ ...	+ 4'1828	+ 0'0176	- 0'001	- 5'687	+ 0'587	+ 0'01	693
175	63 Eridani ...	+ 2'8360	+ 0'0043	+ 0'001	- 5'682	+ 0'399	+ 0'12	697

Mean Positions of Stars for 1880, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
176	8 Eridani, var. ...	5.2	2	4	54	21.15	102	42	54.5	2	0.08
177	65 Eridani ψ ...	4.7	...	4	55	37.18	97	21	4.3	3	0.09
178	11 Camelopardi ...	5.1	...	4	55	42.82	31	11	51.9	3	0.11
179	Taylor 1796 ...	5.5	5	4	56	13.16	110	13	38.7	5	0.47
180	Taylor 1806 ...	5.2	3	4	57	16.87	116	26	46.4	3	0.05
181	9 Aurigæ ...	4.9	...	4	57	16.92	38	33	50.5	5	0.15
182	10 Aurigæ η ...	3.3	...	4	58	6.13	48	55	47.3	5	0.47
183	η^1 Pictoris ...	5.8	2	4	59	40.47	139	19	15.2	2	0.04
184	Taylor 1836 ...	7.0	3	5	0	9.32	139	39	39.0	3	0.05
185	η^2 Pictoris ...	5.6	2	5	1	51.63	139	45	26.4	2	0.02
186	Radcliffe 1402 ...	5.2	...	5	2	48.69	10	54	41.2	5	0.14
187	ζ Doradus ...	5.0	1	5	3	27.35	147	38	13.0	1	0.06
188	11 Aurigæ μ ...	4.9	...	5	5	13.02	51	39	34.3	3	0.04
189	3 Leporis ϵ ...	4.7	...	5	6	41.83	102	0	53.5	2	0.09
190	17 Orionis ρ ...	4.5	...	5	7	1.01	87	16	59.0	1	0.11
191	5 Leporis μ ..	3.3	...	5	7	32.45	106	20	55.1	2	0.11
192	14 Aurigæ—2nd ...	5.2	...	5	7	35.52	57	27	11.2	5	0.14
193	4 Leporis κ ...	4.6	...	5	7	41.48	103	5	5.2	2	0.11
194	19 Orionis β (<i>Rigel</i>) ...	0.3	...	5	8	46.30	98	20	29.3	2	0.06
195	15 Aurigæ λ ...	5.0	...	5	10	41.85	50	0	33.5	1	0.02
196	7 Leporis ν ...	5.2	...	5	14	24.89	102	26	22.9	2	0.03
197	23 Orionis m ...	5.0	...	5	16	31.71	86	34	22.6	3	0.04
198	Bradley 757 ...	5.9	4	5	17	45.33	90	58	50.8	5	0.09
199	29 Orionis e ...	4.3	...	5	18	9.94	97	55	9.5	3	0.04
200	28 Orionis η ...	3.5	...	5	18	26.70	92	30	33.9	2	0.08
201	112 Tauri β ...	1.9	...	5	18	42.44	61	29	44.9	4	0.11
202	24 Aurigæ ϕ ...	5.3	...	5	19	41.50	55	37	40.0	3	0.07
203	31 Orionis, var. ...	5.2	3	5	23	38.45	91	11	18.5	3	0.35
204	Radcliffe 1485 ...	6.1	5	5	23	41.19	15	2	21.6	5	0.13
205	R. P. L. 40 ...	6.0	...	5	23	41.32	4	52	8.7	4	0.19
206	32 Orionis A ...	4.3	...	5	24	21.81	84	8	38.9	1	0.04
207	25 Aurigæ χ ...	5.0	...	5	24	55.17	57	53	53.5	2	0.04
208	34 Orionis δ , var. 1 ...	var.	...	5	25	52.60	90	23	22.7	2	0.97
209	10 Leporis ...	5.4	...	5	25	59.57	110	57	12.9	2	0.03
210	36 Orionis v ...	4.7	...	5	26	7.60	97	23	27.4	3	0.05

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
176	S Eridani ...	+ 2.7829	+ 0.0040	...	- 5.665	+ 0.391	...	...
177	65 Eridani ψ ...	+ 2.9066	+ 0.0045	- 0.002	- 5.560	+ 0.409	- 0.02	701
178	11 Camelopardi ...	+ 5.1938	+ 0.0372	- 0.001	- 5.552	+ 0.729	+ 0.01	691
179	Taylor 1796 ...	+ 2.5987	+ 0.0034	...	- 5.510	+ 0.366	...	...
180	Taylor 1806 ...	+ 2.4321	+ 0.0032	+ 0.005	- 5.420	+ 0.343	+ 0.10	Stone
181	9 Aurigæ ...	+ 4.6868	+ 0.0255	- 0.003	- 5.419	+ 0.660	+ 0.17	696
182	10 Aurigæ η ...	+ 4.1951	+ 0.0168	+ 0.002	- 5.350	+ 0.591	+ 0.06	700
183	η^1 Pictoris ...	+ 1.5704	+ 0.0056	...	- 5.218	+ 0.223	...	...
184	Taylor 1836 ...	+ 1.5515	+ 0.0058	...	- 5.177	+ 0.221	...	...
185	η^2 Pictoris ...	+ 1.5441	+ 0.0057	+ 0.002	- 5.033	+ 0.220	+ 0.02	Stone
186	Radcliffe 1402 ...	+ 9.7927	+ 0.2098	- 0.038	- 5.002	+ 1.383	- 0.14	Romberg
187	ζ Doradus ...	+ 1.0265	+ 0.0098	...	- 4.898	+ 0.147	...	...
188	11 Aurigæ μ ...	+ 4.0996	+ 0.0139	- 0.005	- 4.748	+ 0.583	+ 0.07	719
189	3 Leporis ϵ ...	+ 2.7955	+ 0.0038	+ 0.000	- 4.622	+ 0.399	+ 0.00	727
190	17 Orionis ρ ...	+ 3.1341	+ 0.0051	- 0.001	- 4.595	+ 0.447	+ 0.00	725
191	5 Leporis μ ...	+ 2.6904	+ 0.0035	+ 0.000	- 4.551	+ 0.384	+ 0.02	732
192	14 Aurigæ—2nd ...	+ 3.9034	+ 0.0111	- 0.001	- 4.546	+ 0.556	- 0.01	723
193	4 Leporis κ ...	+ 2.7696	+ 0.0036	- 0.002	- 4.537	+ 0.395	+ 0.01	730
194	19 Orionis β ...	+ 2.8811	+ 0.0040	- 0.001	- 4.445	+ 0.412	- 0.01	736
195	15 Aurigæ λ ...	+ 4.1680	+ 0.0133	+ 0.045	- 4.280	+ 0.595	+ 0.66	731
196	7 Leporis ν ...	+ 2.7832	+ 0.0034	- 0.002	- 3.962	+ 0.400	- 0.02	749
197	23 Orionis m ...	+ 3.1509	+ 0.0046	- 0.001	- 3.780	+ 0.453	+ 0.00	763
198	Bradley 757 ...	+ 3.0498	+ 0.0042	- 0.006	- 3.676	+ 0.439	+ 0.02	757
199	29 Orionis e ...	+ 2.8894	+ 0.0037	- 0.001	- 3.640	+ 0.416	+ 0.03	764
200	28 Orionis η ...	+ 3.0147	+ 0.0040	- 0.002	- 3.616	+ 0.434	- 0.01	765
201	112 Tauri β ...	+ 3.7866	+ 0.0082	+ 0.001	- 3.594	+ 0.545	+ 0.18	756
202	24 Aurigæ ϕ ...	+ 3.9727	+ 0.0095	- 0.002	- 3.508	+ 0.572	+ 0.04	768
203	31 Orionis ...	+ 3.0449	+ 0.0038	- 0.002	- 3.168	+ 0.439	+ 0.02	779
204	Radcliffe 1485 ...	+ 7.9858	+ 0.0766	+ 0.000	- 3.164	+ 1.150	+ 0.02	Romberg
205	R. P. L. 40 ...	+ 18.5709	+ 0.6197	...	- 3.164	+ 2.675	...	...
206	32 Orionis A ...	+ 3.2077	+ 0.0043	- 0.001	- 3.106	+ 0.463	+ 0.03	780
207	25 Aurigæ χ ...	+ 3.9012	+ 0.0077	- 0.001	- 3.058	+ 0.563	0.00	776
208	34 Orionis δ ...	+ 3.0633	+ 0.0038	- 0.001	- 2.975	+ 0.443	+ 0.01	787
209	10 Leporis ...	+ 2.5659	+ 0.0029	- 0.001	- 2.963	+ 0.371	+ 0.04	791
210	36 Orionis ν ...	+ 2.9008	+ 0.0034	- 0.000	- 2.953	+ 0.419	+ 0.01	789

Mean Positions of Stars for 1880, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
211	11 Leporis α ...	2.7	...	5	27	26.20	107	54	38.6	4	0.13
212	Lacaille 1895 ...	5.8	...	5	28	48.98	128	35	55.0	1	0.09
213	42 Orionis c ...	4.6	...	5	29	28.00	94	55	6.6	1	0.09
214	Lacaille 1922 ...	6.2	5	5	29	32.68	154	1	3.0	5	0.14
215	46 Orionis e ...	1.8	...	5	30	7.49	91	16	47.7	4	0.09
216	26 Aurigæ ...	5.6	...	5	30	55.69	59	34	52.0	1	0.01
217	53 Orionis κ ...	2.2	...	5	42	3.83	99	42	48.6	16	0.08
218	Taylor 2170 ...	5.0	1	5	43	8.04	136	38	30.8	1	0.01
219	136 Tauri ...	4.5	...	5	45	46.92	62	25	3.9	1	0.01
220	Taylor 2214 ...	5.6	...	5	48	10.62	142	8	12.7	1	0.02
221	58 Orionis α , Var. 2 (Betelgeuse) ...	0.9	...	5	48	40.46	82	37	0.7	2	0.06
222	33 Aurigæ δ ...	3.8	...	5	49	38.84	35	48	38.0	2	0.02
223	Taylor 2232 ...	5.6	2	5	50	19.64	147	10	42.8	2	0.04
224	35 Aurigæ π ...	4.5	...	5	51	1.45	44	4	34.3	1	0.02
225	δ^2 Columbæ ...	5.6	2	5	51	22.41	127	8	21.1	2	0.04
226	37 Aurigæ θ ...	2.7	...	5	51	32.10	52	47	50.1	5	0.12
227	Lacaille 2106 ...	5.0	2	5	53	11.22	153	7	37.9	2	0.06
228	... ...	9.5	...	5	55	23.14	121	30	56.5	1	0.13
229	3 Monocerotis ...	4.8	...	5	56	11.83	100	36	1.8	1	0.01
230	R. P. L. 43 ...	6.6	...	5	59	9.83	3	14	13.2	1	0.17
231	37 Camelopardi ...	5.3	...	5	59	23.05	31	3	5.3	3	0.02
232	17 Leporis ...	4.9	...	5	59	38.00	106	28	38.7	5	0.08
233	67 Orionis ν ...	4.4	...	6	0	48.16	75	13	5.3	4	0.13
234	Taylor 2315 ...	5.6	1	6	1	1.15	135	2	10.4	1	0.02
235	ρ^2 Columbæ ...	6.6	...	6	5	2.77	134	20	10.9	1	0.04
236	Radcliffe 1664 ...	4.7	...	6	5	37.07	20	38	28.3	5	0.13
237	Brisbane 1172 ...	6.0	3	6	5	57.68	152	8	2.9	3	0.06
238	B. F. 864 ...	5.8	...	6	6	1.49	96	31	27.6	1	0.04
239	1 Lyncis ...	5.4	...	6	6	50.85	28	26	53.6	5	0.13
240	7 Geminorum η ...	3.5	...	6	7	38.08	67	27	35.4	11	0.12
241	2 Lyncis ...	4.3	...	6	9	1.92	30	56	54.6	1	0.01
242	74 Orionis k^2 ...	5.1	...	6	9	42.15	77	41	46.0	1	0.01
243	13 Geminorum μ ...	3.2	...	6	15	42.05	67	25	35.8	4	0.13
244	Taylor 2458 ...	6.0	...	6	16	15.95	124	5	27.7	1	0.02
245	Taylor 2578 ...	5.6	2	6	30	8.44	122	37	20.7	2	0.02

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
211	11 Leporis α ...	+ 2.6445	+ 0.0029	- 0.001	- 2.840	+ 0.383	- 0.01	796
212	Lacaille 1895 ...	+ 2.0150	+ 0.0031	...	- 2.720	+ 0.206	...	...
213	42 Orionis ϵ ...	+ 2.9583	+ 0.0033	- 0.001	- 2.664	+ 0.428	- 0.02	803
214	Lacaille 1922 ...	+ 0.3534	+ 0.0111	...	- 2.655	+ 0.052	...	...
215	46 Orionis ϵ ...	+ 3.0427	+ 0.0035	- 0.002	- 2.607	+ 0.441	- 0.01	809
216	26 Aurigæ ...	+ 3.8509	+ 0.0066	- 0.003	- 2.537	+ 0.558	- 0.01	799
217	53 Orionis κ ...	+ 2.8440	+ 0.0027	- 0.002	- 1.567	+ 0.414	- 0.00	844
218	Taylor 2170 ...	+ 1.6004	+ 0.0032	- 0.001	- 1.475	+ 0.242	0.00	Stone
219	136 Tauri ...	+ 3.7694	+ 0.0038	+ 0.000	- 1.244	+ 0.549	+ 0.02	848
220	Taylor 2214 ...	+ 1.3550	+ 0.0035	...	- 1.035	+ 0.197	+ 0.07	Stone
221	58 Orionis α ...	+ 3.2453	+ 0.0027	+ 0.001	- 0.990	+ 0.473	- 0.02	860
222	33 Aurigæ δ ...	+ 4.9291	+ 0.0061	+ 0.007	- 0.906	+ 0.718	+ 0.12	852
223	Taylor 2232 ...	+ 1.0013	+ 0.0040	...	- 0.847	+ 0.146	...	...
224	35 Aurigæ π ...	+ 4.4520	+ 0.0042	...	- 0.785	+ 0.649	...	...
225	δ^2 Columbæ ...	+ 2.0605	+ 0.0025	...	- 0.755	+ 0.299	...	...
226	37 Aurigæ θ ...	+ 4.0865	+ 0.0035	+ 0.004	- 0.740	+ 0.596	+ 0.08	863
227	Lacaille 2106 ...	+ 0.4351	+ 0.0047	...	- 0.596	+ 0.063	...	...
228	... ..	+ 2.2526	+ 0.0024	...	- 0.404	+ 0.329	...	...
229	3 Monocerotis ...	+ 2.8221	+ 0.0021	- 0.002	- 0.333	+ 0.411	- 0.03	883
230	R. P. L. 43 ...	+ 26.7134	+ 0.0245	...	- 0.076	+ 3.895	...	...
231	37 Camelopardi ...	+ 5.2929	+ 0.0015	+ 0.004	- 0.052	+ 0.772	- 0.03	876
232	17 Leporis ...	+ 2.6769	+ 0.0021	+ 0.000	- 0.032	+ 0.390	- 0.01	890
233	67 Orionis ν ...	+ 3.4251	+ 0.0017	- 0.000	+ 0.063	+ 0.500	+ 0.01	887
234	Taylor 2315 ...	+ 1.7336	+ 0.0025	- 0.009	+ 0.090	+ 0.253	- 0.20	Stone
235	ρ^2 Columbæ ...	+ 1.7663	+ 0.0024	...	+ 0.441	+ 0.257	...	...
236	Radeliffe 1664 ...	+ 6.6204	- 0.0057	- 0.001	+ 0.492	+ 0.965	+ 0.11	Königsberg
237	Brisbane 1172 ...	+ 0.5447	+ 0.0018	...	+ 0.521	+ 0.080	...	...
238	B. F. 864 ...	+ 2.9195	+ 0.0018	...	+ 0.527	+ 0.426	...	...
239	1 Lynceis ...	+ 5.5388	- 0.0036	- 0.000	+ 0.599	+ 0.807	+ 0.01	893
240	7 Geminorum η ...	+ 3.6268	+ 0.0007	- 0.005	+ 0.668	+ 0.529	+ 0.00	909
241	2 Lynceis ...	+ 5.3002	- 0.0044	+ 0.000	+ 0.791	+ 0.772	- 0.04	902
242	74 Orionis k^2 ...	+ 3.3636	+ 0.0009	+ 0.004	+ 0.850	+ 0.491	- 0.20	919
243	13 Geminorum μ ...	+ 3.6268	- 0.0063	+ 0.004	+ 1.372	+ 0.527	+ 0.10	929
244	Taylor 2458 ...	+ 2.1697	+ 0.0020	...	+ 1.422	+ 0.315	...	...
245	Taylor 2578 ...	+ 2.2240	+ 0.0017	...	+ 2.630	+ 0.321	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
246	24 Geminorum γ ...	2.0	...	6	30	46.80	73	30	1.8	1	0.15
247	Taylor 2604 ...	5.0	4	6	32	20.06	142	52	41.0	4	0.04
248	Taylor 2607 ...	5.6	2	6	33	4.46	126	53	21.3	2	0.04
249	55 Aurigæ ψ^* ...	5.2	...	6	34	20.85	45	21	42.5	2	0.05
250	31 Geminorum ξ ...	3.4	...	6	38	33.25	76	58	34.5	11	0.14
251	43 Camelopardi ...	5.1	...	6	40	45.60	20	58	31.7	2	0.10
252	Taylor 2672 ...	7.9	3	6	40	48.18	110	38	57.4	4	0.13
253	Radcliffe 1813 ...	4.7	...	6	42	32.41	12	52	27.8	2	0.10
254	51 Cephei (<i>Hév.</i>) ...	5.0	...	6	43	46.27	2	46	13.8	1	0.17
255	Lalande 13199 ...	8.0	5	6	45	0.69	80	25	10.1	5	0.13
256	α^1 Canis Majoris ...	5.6	2	6	45	51.21	121	33	59.3	2	0.03
257	15 Lyncis ...	4.5	...	6	46	52.69	31	25	22.4	3	0.03
258	14 Canis Majoris θ ...	4.2	...	6	48	36.83	101	53	20.5	14	0.14
259	19 Canis Majoris ...	4.4	...	6	50	25.23	109	59	3.7	2	0.05
260	23 Canis Majoris γ ...	4.1	...	6	58	19.74	105	27	26.2	3	0.13
261	Taylor 2845 ...	5.6	2	7	0	16.66	133	26	30.4	2	0.03
262	Taylor 2849 ...	5.6	3	7	0	46.58	139	24	30.1	3	0.04
263	Taylor 2876 ...	6.0	3	7	4	46.30	115	2	17.2	3	0.14
264	18 Lyncis ...	5.3	...	7	5	25.69	30	9	6.0	3	0.05
265	Radcliffe 1887 ...	4.5	...	7	5	44.58	7	21	49.7	3	0.63
266	Radcliffe 1917 ...	5.0	...	7	9	24.67	40	19	24.2	4	0.07
267	64 Aurigæ ...	4.8	...	7	9	41.35	48	54	20.0	4	0.06
268	55 Geminorum δ ...	3.6	...	7	12	57.30	67	47	51.9	1	0.21
269	19 Lyncis—2nd ...	5.2	...	7	13	4.16	34	29	42.2	3	0.05
270	Taylor 2975 ...	5.3	...	7	14	2.34	126	31	0.2	1	0.10
271	Taylor 2984 ...	6.0	3	7	14	21.39	133	46	7.4	3	0.11
272	Taylor 2980 ...	5.5	3	7	14	22.04	126	31	26.5	3	0.12
273	66 Aurigæ ...	5.3	...	7	15	49.65	49	5	54.6	3	0.10
274	Taylor 3029 ...	5.9	5	7	17	59.94	146	4	13.8	5	0.15
275	Radcliffe 1949 ...	5.0	...	7	18	22.66	21	17	30.6	3	0.06
276	δ Puppis ...	5.7	4	7	18	25.40	121	41	36.1	4	0.05
277	3 Canis Minoris β ...	3.1	...	7	20	38.60	81	28	10.7	13	0.16
278	10 Can. Min. α (<i>Procyon</i>) ...	0.5	...	7	33	1.14	84	28	4.0	4	0.19
279	75 Geminorum σ ...	4.1	...	7	35	48.63	60	49	39.6	3	0.05
280	1 Puppis ...	5.0	3	7	38	41.77	118	7	36.6	3	0.06

255.—Comparison star for Sappho in 1880.

257.—Comparison star for Sylvia in 1882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
246	24 Geminorum γ ...	+ 3.4647	- 0.0015	+ 0.002	+ 2.685	+ 0.500	+ 0.04	969
247	Taylor 2604 ...	+ 1.3236	0.0000	0.000	+ 2.820	+ 0.190	+ 0.01	Stone
248	Taylor 2607 ...	+ 2.0794	+ 0.0016	...	+ 2.884	+ 0.299	...	...
249	55 Aurigæ ψ^4 ...	+ 4.3776	- 0.0087	- 0.005	+ 2.995	+ 0.630	+ 0.04	973
250	31 Geminorum ξ ...	+ 3.3772	- 0.0017	- 0.009	+ 3.358	+ 0.485	+ 0.20	989
251	43 Camelopardi ...	+ 6.5046	- 0.0459	+ 0.001	+ 3.548	+ 0.933	- 0.02	980
252	Taylor 2672 ...	+ 2.5765	+ 0.0012	...	+ 3.551	+ 0.368	...	...
253	Radeliffe 1813 ...	+ 8.8215	- 0.1153	+ 0.023	+ 3.701	+ 1.265	+ 0.01	Homburg
254	51 Cephei ...	+ 30.1981	- 2.1987	- 0.040	+ 3.859	+ 4.321	+ 0.05	Gr.
255	Lalande 13199 ...	+ 3.2936	- 0.0017	...	+ 3.913	+ 0.469	...	...
256	<i>h</i> ¹ Canis Majoris ...	+ 2.2673	+ 0.0014	...	+ 3.985	+ 0.322	...	...
257	15 Lynceis ...	+ 5.2150	- 0.0252	+ 0.000	+ 4.074	+ 0.743	+ 0.12	998
258	14 Canis Majoris θ ...	+ 2.7971	+ 0.0004	- 0.011	+ 4.223	+ 0.397	+ 0.00	1011
259	19 Canis Majoris ...	+ 2.5979	+ 0.0010	+ 0.003	+ 4.376	+ 0.368	- 0.04	1018
260	23 Canis Majoris γ ...	+ 2.7145	+ 0.0005	- 0.002	+ 5.049	+ 0.381	+ 0.00	1028
261	Taylor 2845 ...	+ 1.8497	+ 0.0006	...	+ 5.214	+ 0.259	...	...
262	Taylor 2849 ...	+ 1.5666	- 0.0007	...	+ 5.256	+ 0.219	...	...
263	Taylor 2876 ...	+ 2.4726	+ 0.0011	...	+ 5.532	+ 0.344	...	...
264	18 Lynceis ...	+ 5.2807	- 0.0376	- 0.016	+ 5.648	+ 0.737	+ 0.26	1031
265	Radeliffe 1887 ...	+ 12.9946	- 0.4941	+ 0.009	+ 5.674	+ 1.816	+ 0.02	...
266	Radeliffe 1917 ...	+ 4.5760	- 0.0230	...	+ 5.980	+ 0.634	...	...
267	64 Aurigæ ...	+ 4.1849	- 0.0157	+ 0.001	+ 6.005	+ 0.580	- 0.02	1052
268	55 Geminorum δ ...	+ 3.5905	- 0.0072	- 0.003	+ 6.277	+ 0.495	- 0.00	1062
269	19 Lynceis—2nd ...	+ 4.9199	- 0.0326	- 0.004	+ 6.286	+ 0.679	+ 0.03	1056
270	Taylor 2975 ...	+ 2.1337	+ 0.0012	...	+ 6.367	+ 0.292	...	...
271	Taylor 2984 ...	+ 1.8584	+ 0.0004	...	+ 6.393	+ 0.254	...	...
272	Taylor 2980 ...	+ 2.1339	+ 0.0011	...	+ 6.394	+ 0.292	...	...
273	66 Aurigæ ...	+ 4.1676	- 0.0170	- 0.001	+ 6.516	+ 0.572	- 0.01	1064
274	Taylor 3029 ...	+ 1.1990	- 0.0046	...	+ 6.694	+ 0.162	...	...
275	Radeliffe 1949 ...	+ 6.3041	- 0.0830	+ 0.003	+ 6.725	+ 0.865	+ 0.07	Homburg
276	κ Puppis ...	+ 2.2947	+ 0.0011	...	+ 6.729	+ 0.312	...	...
277	3 Canis Minoris β ...	+ 3.2006	- 0.0041	- 0.004	+ 6.911	+ 0.444	+ 0.03	1079
278	10 Canis Minoris α ...	+ 3.1913	- 0.0041	- 0.047	+ 7.918	+ 0.425	+ 1.03	1106
279	75 Geminorum σ ...	+ 3.7543	- 0.0130	+ 0.005	+ 8.142	+ 0.498	+ 0.22	1108
280	1 Puppis ...	+ 2.4230	+ 0.0011	- 0.001	+ 8.371	+ 0.317	- 0.06	1118

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
281	Taylor 3209	5.8	4	7	39	14.33	134	52	11.9	4	0.07
282	Taylor 3265	5.8	2	7	43	54.01	136	18	42.7	2	0.05
283	7 Argūs ξ	3.4	...	7	44	14.79	114	33	33.6	4	0.23
284	6 Puppis	5.7	...	7	44	15.86	106	55	25.1	2	0.08
285	Taylor 3275	5.7	3	7	44	46.04	136	46	34.3	3	0.08
286	R. P. L. 49	6.7	...	7	48	0.11	5	36	5.0	12	0.40
287	6 Cancri	5.0	...	7	56	8.75	61	52	14.8	4	0.21
288	Taylor 3399	5.9	4	7	57	52.89	143	40	10.4	4	0.09
289	27 Lyncis	4.8	...	7	59	25.38	38	8	56.7	2	0.06
290	55 Camelopardi	5.5	...	8	0	50.82	21	10	31.2	3	0.09
291	15 Argus α	2.9	...	8	2	26.06	113	57	33.5	3	0.29
292	... ..	10.5	1	8	6	40.30	128	42	20.7	3	0.15
293	17 Cancri β	3.8	...	8	10	0.38	80	26	44.1	14	0.22
294	33 Cancri η	5.5	...	8	25	46.09	69	9	8.4	3	0.27
295	43 Cancri γ	4.8	...	8	36	20.36	68	6	4.8	8	0.21
296	θ Volantis	6.0	2	8	38	37.99	159	57	35.7	2	0.14
297	R. P. L. 60	7.0	...	8	50	2.82	5	20	26.5	3	0.21
298	65 Cancri α	4.3	...	8	51	55.33	77	40	43.0	5	0.18
299	76 Cancri κ	5.0	...	9	1	14.80	78	51	0.1	6	0.21
300	Taylor 4022	6.5	1	9	4	48.82	162	7	13.4	2	0.14
301	22 Hydræ θ	3.9	...	9	8	7.21	87	10	54.5	2	0.15
302	ι Carinæ	5.0	2	9	8	33.19	151	49	31.4	2	0.15
303	83 Cancri	6.6	...	9	12	16.89	71	47	11.8	2	0.32
304	25 Ursæ Majoris θ	3.2	...	9	24	49.33	37	46	36.8	1	0.33
305	14 Leonis ε	3.8	...	9	34	44.75	70	33	42.4	1	0.33
306	R. P. L. 69	7.9	...	9	37	57.62	2	51	6.4	5	0.21
307	17 Leonis ε	3.1	...	9	39	2.11	65	40	26.9	1	0.30
308	R. P. L. 70	5.0	...	9	49	8.78	5	30	18.1	1	0.33
309	29 Leonis π	5.0	...	9	53	52.28	81	22	48.2	1	0.32
310	32 Leonis α (<i>Regulus</i>)	1.4	...	10	1	58.87	77	26	48.6	1	0.30
311	R. P. L. 72	6.0	...	10	11	57.63	5	8	25.0	3	0.78
312	41 Leonis γ ¹	2.5	...	10	13	21.34	69	33	5.4	2	0.31
313	47 Leonis ρ	4.0	...	10	26	29.56	80	4	33.2	2	0.34
314	53 Leonis λ	5.3	...	10	42	56.89	78	49	11.5	2	0.34
315	58 Leonis δ	5.0	...	10	54	21.76	85	44	17.3	2	0.34

286.—Groombridge 1353.

297.—Carrington 1286.

311.—Groombridge 1620.

306.—Carrington 1418.

308.—Carrington 1451.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
281	Taylor 3209 ...	+ 1.8643	+ 0.0002	...	+ 8.415	+ 0.243	...	...
282	Taylor 3265 ...	+ 1.8141	- 0.0002	...	+ 8.783	+ 0.234	...	...
283	7 Argûs ζ ...	+ 2.5234	+ 0.0008	- 0.001	+ 8.810	+ 0.327	- 0.02	1132
284	6 Puppis ...	+ 2.7069	0.0000	...	+ 8.812	+ 0.351	...	...
285	Taylor 3275 ...	+ 1.7959	- 0.0004	...	+ 8.852	+ 0.231	...	...
286	R. P. L. 49 ...	+ 15.2192	- 1.2407	...	+ 9.105	+ 1.974	...	...
287	6 Cancri ...	+ 3.6972	- 0.0148	- 0.003	+ 9.733	+ 0.468	+ 0.04	1149
288	Taylor 3399 ...	+ 1.4809	- 0.0037	...	+ 9.865	+ 0.184	...	...
289	27 Lyncis ...	+ 4.5485	- 0.0414	- 0.008	+ 9.984	+ 0.572	- 0.01	1154
290	55 Camelopardi ...	+ 6.0548	- 0.1190	- 0.000	+ 10.091	+ 0.761	- 0.01	1148
291	15 Argûs ε ...	+ 2.5609	+ 0.0009	- 0.008	+ 10.211	+ 0.318	- 0.06	1170
292	... ..	+ 2.1605	+ 0.0016	...	+ 10.528	+ 0.263	...	...
293	17 Cancri β ...	+ 3.2620	- 0.0072	- 0.004	+ 10.776	+ 0.397	+ 0.04	1180
294	33 Cancri η ...	+ 3.4819	- 0.0129	- 0.004	+ 11.912	+ 0.404	+ 0.05	1207
295	43 Cancri γ ...	+ 3.4895	- 0.0143	- 0.009	+ 12.644	+ 0.391	+ 0.03	1230
296	9 Volantis ...	+ 0.2506	- 0.0472	...	+ 12.799	+ 0.021	...	...
297	R. P. L. 60 ...	+ 13.6130	- 1.7055	...	+ 13.551	+ 1.457	...	...
298	65 Cancri α ...	+ 3.2860	- 0.0098	+ 0.001	+ 13.672	+ 0.346	+ 0.02	1269
299	76 Cancri κ ...	+ 3.2576	- 0.0093	- 0.003	+ 14.257	+ 0.329	- 0.01	1287
300	Taylor 4022 ...	+ 0.2043	- 0.0613	...	+ 14.474	+ 0.015	...	...
301	22 Hydra 0 ...	+ 3.1172	- 0.0057	+ 0.008	+ 14.673	+ 0.304	+ 0.31	1303
302	4 Carinae ...	+ 1.3744	- 0.0082	- 0.019	+ 14.700	+ 0.131	0.00	Stone
303	83 Cancri ...	+ 3.3662	- 0.0134	- 0.009	+ 14.919	+ 0.323	+ 0.14	1309
304	25 Ursae Majoris 0 ...	+ 4.1530	- 0.0561	- 0.104	+ 15.631	+ 0.374	+ 0.56	1332
305	14 Leonis o ...	+ 3.2181	- 0.0093	- 0.010	+ 16.160	+ 0.272	+ 0.02	1360
306	R. P. L. 69 ...	+ 18.6338	- 5.4529	...	+ 16.323	+ 1.574	...	...
307	17 Leonis ε ...	+ 3.4210	- 0.0180	- 0.004	+ 16.379	+ 0.282	+ 0.01	1368
308	R. P. L. 70 ...	+ 10.5695	- 1.5352	...	+ 16.873	+ 0.826	...	...
309	29 Leonis π ...	+ 3.1783	- 0.0080	- 0.004	+ 17.003	+ 0.236	+ 0.01	1398
310	32 Leonis α ...	+ 3.2189	- 0.0102	- 0.018	+ 17.453	+ 0.225	- 0.02	1406
311	R. P. L. 72 ...	+ 9.8215	+ 1.5973	- 0.096	+ 17.867	+ 0.642	- 0.04	1399
312	41 Leonis γ ¹ ...	+ 3.2960	- 0.0148	+ 0.021	+ 17.921	+ 0.208	+ 0.14	1432
313	47 Leonis ρ ...	+ 3.1651	- 0.0080	- 0.001	+ 18.408	+ 0.176	- 0.01	1467
314	53 Leonis l ...	+ 3.1595	- 0.0080	- 0.002	+ 18.931	+ 0.145	+ 0.02	1500
315	58 Leonis d ...	+ 3.1004	- 0.0039	- 0.002	+ 19.237	+ 0.120	+ 0.01	1526

Mean Positions of Stars for 1880, January 1st.

Number.	Star.			Magnitude.	Estimations	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
						h.	m.	s.	°	'	"		
316	R. P. L. 79	...	...	7.7	...	10	59	34.02	1	42	31.7	2	0.21
317	68 Leonis δ	...	...	2.8	...	11	7	43.45	68	49	7.6	2	0.34
318	12 Crateris δ	...	...	3.9	...	11	13	20.47	104	7	43.9	2	0.35
319	84 Leonis τ	...	...	5.1	...	11	21	45.94	86	28	57.8	5	0.35
320	91 Leonis υ	...	...	4.5	...	11	30	48.28	90	9	40.2	3	0.36
321	94 Leonis β (<i>Donab</i>)	...	...	2.2	...	11	42	56.26	74	45	24.4	3	0.36
322	8 Virginis π	...	...	4.4	...	11	54	43.39	82	42	56.8	6	0.36
323	R. P. L. 89	...	...	6.3	...	11	58	41.67	3	44	53.7	5	0.78
324	2 Corvi ε	...	...	3.1	...	12	3	57.32	111	57	7.4	4	0.37
325	Lalande 22945	...	...	8.1	5	12	8	51.44	90	39	32.5	5	0.34
326	...	...	...	8.6	5	12	11	15.17	138	15	25.4	5	0.37
327	15 Virginis η	...	...	4.0	...	12	13	45.98	89	59	58.5	4	0.37
328	R. P. L. 93	...	...	6.7	...	12	14	20.27	1	38	6.6	5	0.87
329	7 Corvi δ	...	...	3.1	...	12	23	39.47	105	50	49.7	7	0.37
330	...	...	...	9.3	5	12	28	0.70	93	47	0.8	5	0.34
331	9 Corvi β	...	...	2.8	...	12	28	5.04	112	43	57.6	5	0.38
332	R. P. L. 99	...	...	5.6	...	12	48	15.77	5	56	4.9	1	0.93
333	43 Virginis δ	...	...	3.7	...	12	49	33.55	85	56	59.2	4	0.39
334	Lacaille 5335	...	...	10.3	2	12	51	38.50	160	11	15.7	2	0.38
335	47 Virginis ε (<i>Vindemiatrix</i>)	...	...	3.0	...	12	56	12.21	78	23	42.3	3	0.38
336	51 Virginis θ	...	...	4.4	...	13	3	44.29	94	53	51.5	2	0.40
337	42 Comæ α	...	...	4.4	...	13	4	8.94	71	50	7.3	3	0.34
338	Taylor 6057	...	...	5.6	3	13	4	48.77	149	16	53.6	3	0.36
339	53 Virginis	...	...	5.1	...	13	5	40.39	105	33	0.4	5	0.36
340	η Muscæ	...	...	5.3	5	13	7	8.32	157	15	29.9	5	0.37
341	67 Virginis α (<i>Spica</i>)	...	...	1.2	...	13	18	52.27	100	32	3.5	2	0.33
342	R. P. L. 103	...	...	7.0	...	13	19	31.17	4	37	8.1	1	0.35
343	79 Virginis ζ	...	...	3.5	...	13	28	34.77	89	58	54.1	3	0.36
344	4 Bootis τ	...	...	4.5	...	13	41	33.55	71	56	39.9	6	0.37
345	93 Virginis τ	...	...	4.3	...	13	55	32.40	87	52	27.0	3	0.39
346	11 Draconis α	...	...	3.6	...	14	1	8.23	25	2	59.6	5	0.37
347	R. P. L. 108	...	...	7.8	...	14	1	49.70	3	40	4.6	2	0.63
348	22 Bootis f	...	...	5.4	...	14	20	52.54	70	13	57.7	7	0.37
349	36 Bootis ε (<i>Mirac</i>)	...	...	2.6	...	14	39	44.77	62	25	7.5	5	0.43
350	109 Virginis	...	...	3.7	...	14	40	10.92	87	36	0.7	3	0.38

316.—Carrington 1639.

325.—Comparison star for Hestia in 1880.

332.—Groombridge 1740.

323.—Groombridge 1850.

328.—Groombridge 1884.

342.—Groombridge 2007.

347.—Groombridge 2099

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
316	R. P. L. 79 ...	+ 14·7537	- 3·3238	...	+ 19·361	+ 0·553	...	...
317	68 Leonis δ ...	+ 3·1894	- 0·0132	+ 0·010	+ 19·535	+ 0·098	+ 0·12	1546
318	12 Crateris δ ...	+ 3·0042	+ 0·0064	- 0·011	+ 19·640	+ 0·081	- 0·21	1557
319	84 Leonis τ ...	+ 3·0860	- 0·0020	- 0·001	+ 19·776	+ 0·066	+ 0·01	1570
320	91 Leonis υ ...	+ 3·0718	+ 0·0003	- 0·002	+ 19·891	+ 0·040	- 0·05	1586
321	94 Leonis β ...	+ 3·0994	- 0·0074	- 0·036	+ 19·998	+ 0·025	+ 0·10	1605
322	8 Virginis π ...	+ 3·0762	- 0·0022	- 0·003	+ 20·048	+ 0·002	+ 0·02	1618
323	R. P. L. 89 ...	+ 3·1881	- 0·4868	...	+ 20·054	- 0·006	...	...
324	2 Corvi ε ...	+ 3·0816	+ 0·0142	- 0·006	+ 20·051	- 0·016	- 0·02	1626
325	Lalande 22945 ...	+ 3·0729	+ 0·0028	...	+ 20·030	- 0·026	...	...
326	... ..	+ 3·1459	+ 0·0375	...	+ 20·029	- 0·031	...	...
327	15 Virginis η ...	+ 3·0723	+ 0·0027	- 0·006	+ 20·017	- 0·035	+ 0·02	1647
328	R. P. L. 93 ...	+ 0·1410	+ 0·9549	- 0·090	+ 20·015	- 0·010	- 0·08	1672
329	7 Corvi δ ...	+ 3·1114	+ 0·0118	- 0·014	+ 19·947	- 0·055	+ 0·15	1675
330	... ..	+ 3·0831	+ 0·0055	...	+ 19·904	- 0·063	...	...
331	9 Corvi β ...	+ 3·1407	+ 0·0164	- 0·003	+ 19·904	- 0·064	+ 0·05	1685
332	R. P. L. 99 ...	+ 0·3845	+ 0·2160	- 0·020	+ 19·612	- 0·020	- 0·02	1731
333	43 Virginis δ ...	+ 3·0520	+ 0·0025	- 0·034	+ 19·587	- 0·108	+ 0·05	1723
334	Lacaille 5335 ...	+ 3·9014	+ 0·1283	...	+ 19·546	- 0·135	...	...
335	47 Virginis ε ...	+ 3·0057	- 0·0007	- 0·019	+ 19·454	- 0·114	- 0·03	1735
336	51 Virginis 0 ...	+ 3·1038	+ 0·0078	- 0·004	+ 19·283	- 0·132	+ 0·04	1747
337	42 Comae α ...	+ 2·9511	- 0·0033	- 0·033	+ 19·274	- 0·127	- 0·15	1748
338	Taylor 6057 ...	+ 3·7002	+ 0·0729	...	+ 19·257	- 0·158	...	...
339	53 Virginis ...	+ 3·1775	+ 0·0139	+ 0·004	+ 19·236	- 0·138	+ 0·28	1752
340	η Muscae ...	+ 3·9933	+ 0·1139	- 0·018	+ 19·200	- 0·175	+ 0·04	Stone
341	67 Virginis α ...	+ 3·1562	+ 0·0116	- 0·004	+ 18·878	- 0·163	+ 0·02	1774
342	R. P. L. 103 ...	- 2·5553	+ 0·9351	...	+ 18·859	+ 0·119	...	...
343	79 Virginis ζ ...	+ 3·0721	+ 0·0064	- 0·021	+ 18·575	- 0·176	- 0·06	1789
344	4 Bootis τ ...	+ 2·8855	- 0·0007	- 0·035	+ 18·117	- 0·188	- 0·04	1810
345	93 Virginis τ ...	+ 3·0483	+ 0·0064	- 0·001	+ 17·559	- 0·222	+ 0·03	1829
346	11 Draconis α ...	+ 1·6298	+ 0·0048	- 0·009	+ 17·318	- 0·127	- 0·02	1836
347	R. P. L. 108 ...	- 7·4972	+ 2·3763	...	+ 17·286	+ 0·548	...	...
348	22 Bootis f ...	+ 2·7952	+ 0·0009	- 0·006	+ 16·383	- 0·242	- 0·03	1864
349	36 Bootis ε ...	+ 2·6240	- 0·0001	- 0·004	+ 15·376	- 0·252	- 0·00	1890
350	109 Virginis ...	+ 3·0364	+ 0·0073	- 0·009	+ 15·351	- 0·292	+ 0·03	1889

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
351	55 Hydræ ...	5.8	...	14	40	24.05	115	7	9.2	3	0.36
352	56 Hydræ ...	5.7	...	14	40	44.61	115	35	0.6	2	0.36
353	57 Hydræ ...	6.1	...	14	40	56.57	116	8	30.4	4	0.38
354	9 Libræ α ² ...	3.0	...	14	44	14.48	105	32	31.3	3	0.41
355	43 Bootis ψ ...	4.5	...	14	59	18.24	62	35	1.1	7	0.44
356	O. A. S. 14246 ...	7.3	5	14	59	31.73	111	33	47.2	5	0.37
357	... ..	9.2	5	14	59	31.89	111	23	12.2	5	0.38
358	Taylor 7053 ...	6.3	...	15	2	20.00	144	53	14.3	1	0.37
359	κ Lupi—1st ...	4.5	...	15	3	36.08	138	16	48.3	1	0.38
360	R. P. L. 111 ...	7.0	...	15	3	53.63	5	35	7.8	3	0.08
361	μ Lupi—1st ...	5.1	2	15	10	11.51	137	25	52.9	2	0.36
362	27 Libræ β ...	2.7	...	15	10	33.01	98	56	20.2	10	0.46
363	ν ¹ Lupi ...	5.8	...	15	13	47.41	137	29	20.8	1	0.38
364	φ ¹ Lupi ...	5.2	3	15	14	11.67	125	49	28.2	3	0.38
365	8 Libræ, Var. 5 ...	10.0	4	15	14	30.73	109	57	15.2	4	0.40
366	O. A. S. 14617 ...	9.5	4	15	24	57.56	119	47	3.5	5	0.47
367	5 Cor. Bor. α (<i>Alpheta</i>) ...	2.4	...	15	29	36.39	62	52	47.9	4	0.52
368	ι Lupi ...	5.1	4	15	20	58.32	132	10	18.7	5	0.42
369	42 Libræ ...	5.2	...	15	33	11.31	113	25	36.6	3	0.40
370	h Lupi ...	5.6	3	15	34	50.48	127	2	17.5	3	0.41
371	ζ Cor. Bor.—2nd ...	5.2	...	15	34	51.51	52	58	26.2	1	0.41
372	15 Ursæ Minoris θ ...	5.3	...	15	34	59.88	12	15	5.0	3	0.46
373	ψ ² Lupi ...	5.6	3	15	35	2.42	124	19	24.7	5	0.43
374	24 Serpentinis α ...	2.7	...	15	38	21.41	83	11	43.4	5	0.49
375	κ Trianguli Australis ...	5.1	3	15	43	39.33	158	14	35.5	3	0.40
376	37 Serpentinis ε ...	3.7	...	15	44	50.08	85	9	34.3	13	0.48
377	R. P. L. 115 ...	7.0	...	15	45	53.13	4	46	51.0	2	0.44
378	Badoliffe 3468 ...	5.3	5	15	49	28.87	33	49	6.6	5	0.41
379	... ..	9.1	3	15	53	17.79	150	8	56.0	4	0.44
380	η Normæ ...	5.6	2	15	54	24.17	138	53	34.5	2	0.41
381	δ Normæ ...	4.9	...	15	58	1.04	134	50	44.9	1	0.42
382	8 Scorpii β ¹ ...	3.0	...	15	58	27.53	109	28	29.7	2	0.58
383	8 Scorpii β—2nd ...	5.2	...	15	58	28.09	109	28	17.6	5	0.52
384	6 Herculis ν ...	4.7	...	15	59	3.34	43	37	45.2	3	0.43
385	ι ² Normæ ...	5.7	4	15	59	27.47	147	36	33.0	4	0.43

356—357.—Comparison stars for Ariadne in 1880.

366.—Comparison star for Nausikaa in 1880.

360.—Groombridge 2213.

377.—Carrington 2380.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
351	55 Hydræ ...	+ 3·4761	+ 0·0216	- 0·004	+ 15·339	- 0·333	+ 0·03	1885
352	56 Hydræ ...	+ 3·4853	+ 0·0220	- 0·003	+ 15·321	- 0·334	+ 0·03	1886
353	57 Hydræ ...	+ 3·4961	+ 0·0224	(+ 0·012)	+ 15·309	- 0·335	+ 0·03	1887
354	9 Libræ α ² ...	+ 3·3165	+ 0·0154	- 0·009	+ 15·121	- 0·324	+ 0·07	1894
355	43 Bootis ψ ...	+ 2·5835	+ 0·0010	- 0·015	+ 14·223	- 0·271	+ 0·01	1922
356	O. A. S. 14246 ...	+ 3·4450	+ 0·0186	...	+ 14·210	+ 0·360	...	...
357	... ..	+ 3·4417	+ 0·0184	...	+ 14·209	- 0·360	...	...
358	Taylor 7053 ...	+ 4·4304	+ 0·0638	...	+ 14·036	- 0·467	...	...
359	κ Lupi—1st ...	+ 4·1402	+ 0·0476	- 0·020	+ 13·956	- 0·440	+ 0·06	Stone
360	R. P. L. 111 ...	- 6·7575	+ 1·1585	...	+ 13·937	+ 0·703	...	...
361	μ Lupi—1st ...	+ 4·1462	+ 0·0452	- 0·015	+ 13·536	- 0·451	+ 0·08	Stone
362	27 Libræ β ...	+ 3·2277	+ 0·0117	- 0·008	+ 13·511	- 0·353	+ 0·02	1934
363	ν ¹ Lupi ...	+ 4·1637	+ 0·0448	...	+ 13·302	- 0·460	...	...
364	φ ¹ Lupi ...	+ 3·7957	+ 0·0290	...	+ 13·276	- 0·420	...	...
365	γ Libræ ...	+ 3·4366	+ 0·0170	...	+ 13·255	- 0·382	...	...
366	O. A. S. 14617 ...	+ 3·6689	+ 0·0228	...	+ 12·555	- 0·422	...	...
367	5 Coronæ Borealis α ...	+ 2·5298	+ 0·0023	+ 0·009	+ 12·235	- 0·297	+ 0·09	1973
368	ε Lupi ...	+ 4·0327	+ 0·0345	- 0·019	+ 12·210	- 0·471	- 0·11	Stone
369	42 Libræ ...	+ 3·5367	+ 0·0180	- 0·003	+ 11·986	- 0·418	+ 0·01	1978
370	h Lupi ...	+ 3·8854	+ 0·0283	...	+ 11·869	- 0·460	...	...
371	ζ Coronæ Bor.—2nd... ..	+ 2·2594	+ 0·0021	- 0·004	+ 11·868	- 0·270	0·00	Romberg
372	15 Ursæ Minoris θ ...	- 1·8928	+ 0·1924	- 0·040	+ 11·836	+ 0·219	- 0·01	2008
373	ψ ² Lupi ...	+ 3·8085	+ 0·0256	...	+ 11·855	- 0·452	...	...
374	24 Serpentis α ...	+ 2·9423	+ 0·0062	+ 0·008	+ 11·620	- 0·354	- 0·06	1990
375	κ Trianguli Australis	+ 5·8467	+ 0·1245	- 0·008	+ 11·240	- 0·709	+ 0·04	Stone
376	37 Serpentis ε ...	+ 2·9782	+ 0·0066	+ 0·007	+ 11·154	- 0·365	- 0·06	2005
377	R. P. L. 115 ...	- 10·2507	+ 1·5276	...	+ 11·077	+ 1·242	...	...
378	Radeliffe 3468 ...	+ 1·3915	+ 0·0108	...	+ 10·803	- 0·176	...	...
379	... ..	+ 5·0548	+ 0·0694	...	+ 10·525	- 0·632	...	...
380	η Normæ ...	+ 4·3801	+ 0·0402	...	+ 10·449	- 0·549	...	...
381	δ Normæ ...	+ 4·2181	+ 0·0334	...	+ 10·177	- 0·533	+ 0·02	Stone
382	8 Scorpii β ¹ ...	+ 3·4801	+ 0·0142	- 0·003	+ 10·143	- 0·441	+ 0·03	2034
383	8 Scorpii β—2nd ...	+ 3·4805	+ 0·0142	- 0·003	+ 10·143	- 0·441	+ 0·03	2034
384	6 Herculis υ ...	+ 1·8606	+ 0·0047	+ 0·005	+ 10·098	- 0·239	+ 0·06	2044
385	ι ² Normæ ...	+ 4·8948	+ 0·0586	...	+ 10·069	- 0·621	...	...

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
421	40 Herculis ζ	3.1	...	16	36	45.76	58	10	48.0	5	0.53
422	43 Herculis ι	5.5	...	16	40	4.22	81	11	51.5	2	0.41
423	18 Draconis γ	5.0	...	16	40	5.26	25	14	0.4	5	0.43
424	Radcliffe 3602 ... ..	...	...	16	43	1.09	33	0	10.5	1	0.42
425	52 Herculis	5.0	...	16	45	43.41	43	43	22.1	3	0.61
426	Taylor 7804	7.1	2	16	45	44.66	131	37	26.2	3	0.43
427	Taylor 7805	7.0	2	16	45	46.30	131	38	51.3	3	0.45
428	Taylor 7806	8.0	3	16	45	54.50	131	37	9.1	5	0.52
429	50 Herculis	5.0	...	16	45	57.75	59	59	15.5	5	0.55
430	Taylor 7807	5.6	3	16	45	53.53	132	16	41.8	6	0.52
431	Lacaille 6989	6.2	...	16	46	42.07	159	4	33.3	1	0.41
432	23 Ophiuchi	5.6	...	16	48	10.90	95	57	21.1	3	0.64
433	25 Ophiuchi ι	4.4	...	16	48	19.70	79	38	5.0	4	0.66
434	27 Ophiuchi κ	3.4	...	16	51	59.22	80	26	12.9	5	0.52
435	ε ² Aræ	5.9	...	16	53	33.74	143	3	17.8	1	0.41
436	19 Draconis h ¹	4.7	...	16	55	22.11	24	40	53.4	5	0.46
437	59 Herculis δ	5.3	...	16	57	10.53	56	15	26.1	4	0.42
438	22 Ursæ Minoris ε	4.5	...	16	58	18.76	7	46	3.4	6	0.49
439	Lacaille 7102	5.6	3	16	59	9.71	151	30	55.0	5	0.51
440	Lacaille 7107	6.5	...	17	1	2.42	157	2	27.3	2	0.53
441	ι Scorpii	5.6	3	17	2	0.70	134	24	1.1	3	0.44
442	21 Draconis μ	5.2	...	17	2	50.70	35	22	13.3	5	0.55
443	35 Ophiuchi η	2.6	...	17	3	29.75	105	34	28.7	5	0.55
444	37 Ophiuchi	5.5	...	17	6	48.51	79	16	5.1	1	0.41
445	36 Ophiuchi A—1st	4.7	...	17	7	58.19	116	25	30.9	2	0.41
446	ι Apodis	5.8	...	17	8	43.44	159	59	37.8	5	0.61
447	64 Herculis α ¹ , Var. 1	Var.	...	17	9	10.57	75	28	18.5	3	0.51
448	υ Scorpii	5.6	2	17	9	15.27	122	31	31.6	2	0.43
449	65 Herculis δ	3.3	...	17	10	6.08	65	1	5.1	5	0.55
450	41 Ophiuchi	5.0	...	17	10	26.97	90	18	28.6	5	0.53
451	39 Ophiuchi (S)	5.2	...	17	10	41.60	114	9	15.8	5	0.58
452	69 Herculis ε	4.9	...	17	13	31.92	52	34	55.1	4	0.42
453	53 Serpentis ν	4.4	...	17	14	4.71	102	43	23.2	2	0.43
454	42 Ophiuchi θ	3.4	...	17	14	38.41	114	52	40.1	2	0.53
455	κ ¹ Aræ	5.8	...	17	16	38.70	140	31	19.8	1	0.54

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
421	40 Herculis ζ	.. + 2.2969	+ 0.0033	- 0.036	+ 7.124	- 0.316	- 0.41	2127
422	43 Herculis i	... + 2.8777	+ 0.0048	- 0.001	+ 6.853	- 0.307	- 0.05	2131
423	18 Draconis γ	... + 0.4002	+ 0.0233	+ 0.000	+ 6.851	- 0.058	+ 0.02	2141
424	Radcliffe 3602	... + 1.1289	+ 0.0108	...	+ 6.610	- 0.158	...	...
425	52 Herculis ...	.. + 1.7511	+ 0.0050	- 0.004	+ 6.386	- 0.245	+ 0.06	2140
426	Taylor 7804 ...	... + 4.1985	+ 0.0200	...	+ 6.384	- 0.583	...	...
427	Taylor 7805 ...	... + 4.1995	+ 0.0200	...	+ 6.382	- 0.583	...	...
428	Taylor 7806 ...	... + 4.1985	+ 0.0200	...	+ 6.371	- 0.583	...	...
429	50 Herculis ...	... + 2.3401	+ 0.0034	- 0.003	+ 6.366	- 0.326	- 0.02	2145
430	Taylor 7807 ...	... + 4.2250	+ 0.0205	...	+ 6.366	- 0.587	...	...
431	Lucaille 6989	... + 6.3916	+ 0.0820	...	+ 6.305	- 0.888	...	...
432	23 Ophiuchi ...	... + 3.2050	+ 0.0067	- 0.004	+ 6.182	- 0.447	+ 0.05	2146
433	25 Ophiuchi ι	... + 2.8396	+ 0.0043	- 0.005	+ 6.169	- 0.397	+ 0.03	2150
434	27 Ophiuchi κ	... + 2.8569	+ 0.0044	- 0.021	+ 5.864	- 0.402	- 0.02	2156
435	ε ² Arae ...	... + 4.7758	+ 0.0288	- 0.001	+ 5.733	- 0.669	+ 0.16	Stone
436	19 Draconis h ¹	... + 0.2782	+ 0.0213	+ 0.036	+ 5.581	- 0.041	- 0.04	2160
437	59 Herculis α	... + 2.2126	+ 0.0033	- 0.001	+ 5.427	- 0.313	- 0.01	2165
438	22 Ursae Minoris ε	... - 6.3758	+ 0.3093	+ 0.009	+ 5.333	+ 0.894	+ 0.00	2201
439	Lucaille 7102	... + 5.4499	+ 0.0413	- 0.003	+ 5.262	- 0.768	+ 0.04	Stone
440	Lucaille 7107	... + 6.1240	+ 0.0577	...	+ 5.103	- 0.865	...	...
441	ι Scorpis ...	... + 4.3398	+ 0.0180	...	+ 5.020	- 0.615	...	...
442	21 Draconis μ	... + 1.2473	+ 0.0078	- 0.011	+ 4.949	- 0.178	- 0.08	2175
443	35 Ophiuchi η	... + 3.4337	+ 0.0073	+ 0.000	+ 4.895	- 0.487	- 0.10	2171
444	37 Ophiuchi ...	... + 2.8257	+ 0.0038	- 0.002	+ 4.613	- 0.403	+ 0.03	2178
445	36 Ophiuchi A	... + 3.7196	+ 0.0093	- 0.039	+ 4.513	- 0.530	+ 1.14	2176
446	ι Apodis ...	... + 6.6526	+ 0.0645	+ 0.007	+ 4.450	- 0.947	+ 0.06	Stone
447	64 Herculis α ¹	... + 2.7344	+ 0.0035	- 0.002	+ 4.410	- 0.391	- 0.03	2183
448	α Scorpis ...	... + 3.9040	+ 0.0107	...	+ 4.404	- 0.557	...	...
449	65 Herculis δ	... + 2.4642	+ 0.0032	- 0.003	+ 4.331	- 0.353	+ 0.16	2185
450	41 Ophiuchi ...	... + 3.0792	+ 0.0046	- 0.004	+ 4.302	- 0.440	+ 0.06	2184
451	39 Ophiuchi (S)	... + 3.6580	+ 0.0083	- 0.006	+ 4.281	- 0.523	+ 0.02	2181
452	69 Herculis ε	... + 2.0705	+ 0.0033	- 0.005	+ 4.038	- 0.298	- 0.08	2195
453	53 Serpentis ν	... + 3.3681	+ 0.0060	+ 0.001	+ 3.992	- 0.483	- 0.03	2190
454	42 Ophiuchi θ	... + 3.6801	+ 0.0080	- 0.002	+ 3.944	- 0.528	+ 0.04	2189
455	κ ¹ Arae ...	... + 4.6665	+ 0.0177	...	+ 3.770	- 0.670	...	...

Mean Positions of Stars for 1880, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
456	κ^3 Aræ	5.6	2	17	17	51.21	140	31	17.7	3	0.47
457	Taylor 8071	4.5	...	17	20	15.84	94	58	44.6	2	0.43
458	49 Ophiuchi σ	4.4	...	17	20	33.63	85	45	13.9	12	0.58
459	σ Aræ	5.6	2	17	26	43.81	136	25	14.5	2	0.41
460	Taylor 8122	5.5	4	17	28	16.96	123	32	55.1	5	0.46
461	55 Ophiuchi α	2.2	...	17	29	21.77	77	21	4.1	3	0.59
462	24 Draconis ν^1	4.9	...	17	29	43.71	34	43	53.3	5	0.54
463	25 Draconis ν^1	4.8	...	17	29	53.94	34	44	40.4	5	0.60
464	57 Ophiuchi μ	4.7	...	17	31	19.39	98	2	38.6	1	0.41
465	Taylor 8150	7.0	1	17	32	12.01	122	7	52.2	2	0.53
466	27 Draconis f	5.3	...	17	32	26.52	21	47	19.7	4	0.47
467	60 Ophiuchi β	2.9	...	17	37	32.65	85	22	50.8	10	0.61
468	28 Draconis ω	4.9	...	17	37	38.99	21	11	11.6	3	0.42
469	86 Herculis μ	3.5	...	17	41	45.72	62	12	28.0	8	0.51
470	ι^2 Scorpii	5.7	3	17	41	47.49	130	2	58.6	3	0.42
471	92 Herculis ξ	3.9	...	17	53	6.04	60	44	18.0	2	0.41
472	94 Herculis ν	4.6	...	17	53	54.42	59	47	56.9	4	0.53
473	66 Ophiuchi	4.8	...	17	54	19.15	85	37	22.4	3	0.44
474	67 Ophiuchi	4.0	...	17	54	38.16	87	3	38.9	5	0.53
475	93 Herculis	4.5	...	17	54	42.84	73	14	27.3	3	0.58
476	35 Draconis	5.1	...	17	54	49.32	13	1	18.3	5	0.66
477	69 Ophiuchi τ	4.9	...	17	56	32.88	98	10	42.7	1	0.43
478	π Pavonis	4.6	...	17	57	1.73	153	40	15.9	4	0.66
479	72 Ophiuchi	3.8	...	18	1	39.55	80	27	6.5	6	0.62
480	13 Sagittarii μ^1	4.1	...	18	6	35.15	111	5	18.5	3	0.50
481	40 Draconis	5.8	...	18	9	1.42	10	0	57.9	3	0.62
482	41 Draconis	6.2	...	18	9	7.31	10	0	47.2	5	0.65
483	23 Ursæ Minoris δ	4.3	...	18	11	2.94	3	23	26.7	3	0.29
484	36 Draconis	5.0	...	18	13	12.22	25	38	33.8	5	0.51
485	58 Serpentis η	3.4	...	18	15	6.01	92	55	42.2	5	0.66
486	22 Sagittarii λ	3.1	...	18	20	33.82	115	29	8.1	6	0.68
487	44 Draconis χ	3.7	...	18	23	13.12	17	19	10.8	4	0.57
488	3 Lyræ α (<i>Vega</i>)	0.2	...	18	32	52.48	51	19	37.4	5	0.68
489	46 Draconis c	5.2	...	18	40	18.42	34	34	51.1	3	0.61
490	4 Lyræ ϵ^1 —2nd... ..	6.0	...	18	40	21.78	50	27	13.9	5	0.50

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
456	κ^2 Aræ ...	+ 4.6680	+ 0.0172	...	+ 3.667	- 0.671	...	...
457	Taylor 8071 ...	+ 3.1870	+ 0.0046	...	+ 3.460	- 0.459	...	...
458	49 Ophiuchi σ ...	+ 2.9745	+ 0.0037	- 0.002	+ 3.434	- 0.428	- 0.02	2206
459	σ Aræ ...	+ 4.4627	+ 0.0120	...	+ 2.900	- 0.645	...	...
460	Taylor 8122 ...	+ 4.1273	+ 0.0087	...	+ 2.766	- 0.597	...	...
461	55 Ophiuchi α ...	+ 2.7750	+ 0.0030	+ 0.007	+ 2.073	- 0.402	+ 0.22	2218
462	24 Draconis ν^1 ...	+ 1.1607	+ 0.0058	+ 0.018	+ 2.634	- 0.169	- 0.05	2222
463	25 Draconis ν^2 ...	+ 1.1614	+ 0.0058	+ 0.018	+ 2.627	- 0.169	- 0.04	2224
464	57 Ophiuchi μ ...	+ 3.2597	+ 0.0041	- 0.003	+ 2.502	- 0.473	+ 0.01	2220
465	Taylor 8150 ...	+ 3.9057	+ 0.0066	0.000	+ 2.427	- 0.566	0.00	Stone
466	27 Draconis f ...	- 0.2479	+ 0.0153	- 0.007	+ 2.405	+ 0.035	- 0.13	2234
467	60 Ophiuchi β ...	+ 2.9649	+ 0.0030	- 0.004	+ 1.961	- 0.431	- 0.17	2229
468	28 Draconis ω ...	- 0.3603	+ 0.0139	+ 0.002	+ 1.953	+ 0.051	- 0.31	2238
469	86 Herculis μ ...	+ 2.3698	+ 0.0025	- 0.024	+ 1.594	- 0.346	+ 0.75	2237
470	ι^2 Scorpæ ...	+ 4.1926	+ 0.0059	...	+ 1.591	- 0.610	...	...
471	92 Herculis ξ ...	+ 2.3236	+ 0.0023	+ 0.006	+ 0.603	- 0.339	+ 0.03	2258
472	94 Herculis ν ...	+ 2.2945	+ 0.0023	- 0.001	+ 0.532	- 0.334	- 0.01	2261
473	66 Ophiuchi ...	+ 2.9699	+ 0.0021	- 0.002	+ 0.497	- 0.433	- 0.02	2257
474	67 Ophiuchi ...	+ 3.0037	+ 0.0021	+ 0.002	+ 0.469	- 0.438	+ 0.01	2259
475	93 Herculis ...	+ 2.6698	+ 0.0022	- 0.001	+ 0.463	- 0.389	- 0.01	2262
476	35 Draconis ...	- 2.7065	+ 0.0124	+ 0.014	+ 0.413	+ 0.395	- 0.24	2287
477	69 Ophiuchi τ ...	+ 3.2644	+ 0.0021	+ 0.002	+ 0.302	- 0.476	+ 0.01	2265
478	π Pavonis ...	+ 5.7737	+ 0.0034	0.000	+ 0.260	- 0.842	+ 0.22	Stone
479	72 Ophiuchi ...	+ 2.8474	+ 0.0019	- 0.006	- 0.145	- 0.415	- 0.09	2275
480	13 Sagittarii μ^1 ...	+ 3.5876	+ 0.0009	- 0.001	- 0.576	- 0.523	- 0.00	2284
481	40 Draconis ...	- 4.4909	- 0.0226	+ 0.022	- 0.789	+ 0.654	- 0.13	2318
482	41 Draconis ...	- 4.4933	- 0.0229	+ 0.020	- 0.798	+ 0.655	- 0.13	2321
483	23 Ursæ Minoris δ ...	- 19.4650	- 0.3213	+ 0.026	- 0.966	+ 2.835	- 0.04	2395
484	36 Draconis ...	+ 0.2920	- 0.0006	+ 0.052	- 1.154	- 0.042	- 0.01	2309
485	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.321	- 0.456	+ 0.68	2298
486	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.797	- 0.537	+ 0.20	2310
487	44 Draconis χ ...	- 1.1930	- 0.0148	+ 0.113	- 2.027	+ 0.173	+ 0.37	2337
488	3 Lyræ α ...	+ 2.0133	+ 0.0016	+ 0.017	- 2.867	- 0.290	- 0.30	2341
489	46 Draconis c ...	+ 1.1629	- 0.0013	- 0.004	- 3.509	- 0.165	- 0.02	2360
490	4 Lyræ ϵ^1 —2nd ...	+ 1.9856	+ 0.0014	- 0.002	- 3.513	- 0.283	- 0.08	2355

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
491	5 Lyræ ϵ^2 —2nd ...	5.5	...	18	40	24.23	50	30	42.0	4	0.63
492	6 Lyræ ζ^1 ...	4.3	...	18	40	38.37	52	31	8.1	5	0.66
493	7 Lyræ ζ^2 ...	5.9	...	18	40	40.06	52	31	46.7	4	0.68
494	Radcliffe 4070 ...	5.8	...	18	44	2.01	37	8	35.1	4	0.72
495	κ Pavonis, Var. ...	5.0	2	18	44	33.99	157	22	51.2	5	0.74
496	10 Lyræ β^1 , Var. 1 ...	var.	...	18	45	38.80	56	46	33.3	1	0.52
497	ω Pavonis ...	5.4	...	18	47	56.25	150	21	20.3	1	0.41
498	B. F. 2577 ...	5.4	...	18	48	45.80	16	3	4.2 14.8	5	0.70
499	Radcliffe 4109 ...	6.0	...	18	48	53.42	37	10	42.3	4	0.63
500	47 Draconis σ ...	4.6	...	18	49	25.79	30	45	26.8	2	0.64
501	11 Lyræ δ^1 ...	5.3	...	18	49	31.99	53	10	38.0	4	0.63
502	50 Draconis ...	6.0	...	18	50	14.11	14	42	28.1	5	0.74
503	θ Serpentis—2nd ...	5.1	...	18	50	16.68	85	57	9.1	3	0.62
504	12 Lyræ δ^2 ...	4.5	...	18	50	18.33	53	15	10.6	5	0.69
505	R. P. L. 131 ...	6.5	...	18	53	59.45	3	26	41.5	1	0.21
506	13 Aquilæ ϵ ...	4.1	...	18	54	10.42	75	5	35.1	1	0.73
507	52 Draconis ν ...	4.8	...	18	55	51.80	18	51	44.6	5	0.66
508	17 Aquilæ ζ ...	3.1	...	18	59	53.53	76	18	47.5	8	0.69
509	25 Aquilæ ω ...	5.1	...	19	12	10.92	78	37	10.5	10	0.69
510	Lacaille 8036—1st ...	8.0	...	19	12	37.06	161	41	38.6	5	0.74
511	30 Aquilæ δ ...	3.5	...	19	19	26.80	87	7	23.0	18	0.70
512	51 Sagittarii h^1 , Var. ...	var.	...	19	28	44.43	114	58	47.6	5	0.69
513	52 Sagittarii, h^2 ...	4.6	...	19	29	24.14	115	8	47.6	7	0.72
514	50 Aquilæ γ ...	2.8	...	19	40	33.27	79	40	39.9	13	0.73
515	λ Ursæ Minoris ...	6.5	...	19	44	11.41	1	3	21.4	1	0.61
516	13 Vulpeculæ ...	4.7	...	19	48	21.45	66	13	56.2	1	0.61
517	58 Sagittarii ω ...	5.0	...	19	48	29.25	116	36	58.2	1	0.72
518	60 Aquilæ β ...	4.0	...	19	49	25.07	83	53	27.8	7	0.72
519	65 Aquilæ θ ...	3.4	...	20	5	6.77	91	10	34.1	16	0.73
520	6 Capricorni α^2 ...	3.8	...	20	11	23.68	102	54	55.0	8	0.74
521	1 Cephei κ ...	4.4	...	20	12	54.42	12	39	1.5	5	0.66
522	11 Capricorni ρ ...	5.0	...	20	22	0.79	108	12	32.3	1	0.67
523	V Capricorni, Var. 8 ...	9.3	5	20	23	49.85	102	37	50.1	10	0.70
524	R. P. L. 141 ...	7.8	...	20	25	41.63	5	17	5.5	16	0.88
525	R. P. L. 143 ...	6.7	...	20	27	26.37	5	15	16.5	3	0.23

Observed with the Madras Meridian Circle in that Year.

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
491	5 Lyræ ϵ^2 2nd. ...	+ 1.9879	+ 0.0014	- 0.001	- 3.517	- 0.283	- 0.07	2356
492	6 Lyræ ζ^1 ...	+ 2.0633	+ 0.0014	+ 0.001	- 3.540	- 0.294	- 0.02	2357
493	7 Lyræ ζ^2 ...	+ 2.0637	+ 0.0014	+ 0.001	- 3.540	- 0.294	- 0.03	2358
494	Radcliffe 4070 ...	+ 1.3399	- 0.0008	...	- 3.830	- 0.190	...	...
495	κ Pavonis ...	+ 6.2205	- 0.0437	...	- 3.874	- 0.889	...	...
496	10 Lyræ β^1 ...	+ 2.2140	+ 0.0015	- 0.001	- 3.968	- 0.315	- 0.02	2369
497	ω Pavonis ...	+ 5.3703	- 0.0287	...	- 4.164	- 0.765	...	...
498	B. F. 2577 ...	- 1.4646	- 0.0418	...	- 4.234	+ 0.211	...	...
499	Radcliffe 4109 ...	+ 1.3495	- 0.0011	...	- 4.246	- 0.190	...	...
500	47 Draconis σ ...	+ 0.8779	- 0.0045	+ 0.009	- 4.290	- 0.123	- 0.02	2386
501	11 Lyræ δ^1 ...	+ 2.0946	+ 0.0013	- 0.002	- 4.301	- 0.296	- 0.00	2380
502	50 Draconis ...	- 1.8988	- 0.0542	- 0.003	- 4.360	+ 0.272	- 0.07	2404
503	0 Serpentis ...	+ 2.9799	- 0.0005	+ 0.001	- 4.364	- 0.422	- 0.06	2377
504	12 Lyræ δ^2 ...	+ 2.0981	+ 0.0013	- 0.002	- 4.367	- 0.207	- 0.02	2383
505	R. P. L. 131 ...	- 18.5182	- 1.5040	...	- 4.681	+ 2.030	...	...
506	13 Aquilæ ϵ ...	+ 2.7263	+ 0.0004	- 0.005	- 4.696	- 0.385	+ 0.08	2390
507	52 Draconis ν ...	- 0.7249	- 0.0306	+ 0.010	- 4.840	+ 0.105	- 0.03	2411
508	17 Aquilæ ζ ...	+ 2.7578	+ 0.0003	- 0.003	- 5.181	- 0.387	+ 0.09	2405
509	25 Aquilæ ω ...	+ 2.8165	- 0.0003	- 0.001	- 6.212	- 0.388	- 0.03	2432
510	Lacaille 8036 ...	+ 6.9119	- 0.1021	...	- 6.250	- 0.955	...	...
511	30 Aquilæ δ ...	+ 3.0091	- 0.0018	+ 0.015	- 6.814	- 0.410	- 0.09	2451
512	51 Sagittarii h^1 ...	+ 3.6490	- 0.0100	- 0.001	- 7.573	- 0.491	+ 0.02	2475
513	52 Sagittarii h^2 ...	+ 3.6527	- 0.0102	+ 0.002	- 7.627	- 0.490	+ 0.01	2478
514	50 Aquilæ γ ...	+ 2.8518	- 0.0011	- 0.001	- 8.519	- 0.373	- 0.01	2511
515	λ Ursæ Minoris ...	- 62.0563	- 29.4217	- 0.050	- 8.806	+ 8.136	+ 0.00	2795
516	13 Vulpeculæ ...	+ 2.5481	+ 0.0008	+ 0.001	- 9.132	- 0.327	- 0.04	2537
517	58 Sagittarii ω ...	+ 3.6686	- 0.0131	+ 0.013	- 9.142	- 0.473	- 0.09	2528
518	60 Aquilæ β ...	+ 2.9452	- 0.0020	+ 0.001	- 9.215	- 0.378	+ 0.47	2538
519	65 Aquilæ θ ...	+ 3.0958	- 0.0042	- 0.000	- 10.411	- 0.382	- 0.01	2576
520	6 Capricorni α^3 ...	+ 3.3299	- 0.0084	+ 0.002	- 10.878	- 0.403	- 0.02	2595
521	1 Cephei κ ...	- 1.9102	- 0.1651	- 0.002	- 10.988	+ 0.236	- 0.01	2632
522	11 Capricorni ρ ...	+ 3.4303	- 0.0115	- 0.003	- 11.646	- 0.403	+ 0.01	2626
523	V Capricorni ...	+ 3.3148	- 0.0089	...	- 11.775	- 0.387	...	...
524	R. P. L. 141 ...	- 8.5568	- 1.2590	...	- 11.907	- 1.009	...	...
525	R. P. L. 143 ...	- 8.5590	- 1.2799	...	- 12.029	+ 1.004

Mean Positions of Stars for 1880, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
526	2 Delphini ϵ	4.1	...	20	27	28.67	79	6	11.1	2	0.77
527	2 Cephei θ	4.3	...	20	27	33.88	27	24	29.0	4	0.66
528	2 Aquarii ϵ	3.8	...	20	41	10.69	99	56	1.5	8	0.73
529	32 Vulpeculæ	5.1	...	20	49	26.79	62	23	50.6	4	0.79
530	76 Draconis	5.6	...	20	51	10.75	7	54	52.8	5	0.16
531	Radcliffe 5066	5.0	...	20	52	59.56	9	53	53.9	3	0.67
532	23 Capricorni θ	4.3	...	20	59	11.94	107	42	30.6	5	0.78
533	ϵ Pavonis	5.5	...	21	2	3.48	160	36	49.4	4	0.74
534	"	9.9	4	21	2	50.78	120	53	46.0	5	0.75
535	"	8.5	5	21	4	53.33	121	4	39.1	5	0.75
536	64 Cygni ζ	3.5	...	21	7	49.72	60	15	50.5	2	0.80
537	"	9.4	4	21	9	28.57	120	47	4.9	5	0.70
538	O. A. S. 21345	8.4	5	21	15	32.84	119	56	42.0	5	0.69
539	Brisbane 7028	9.4	2	21	21	59.14	147	23	39.9	4	0.75
540	"	9.5	1	21	22	22.91	147	23	52.5	1	0.79
541	22 Aquarii β	3.1	...	21	25	14.42	96	5	53.1	11	0.76
542	8 Pegasi ϵ	2.4	...	21	38	17.52	80	40	26.9	6	0.81
543	78 Draconis	5.4	...	21	41	35.98	18	13	46.8	6	0.73
544	10 Cephei ν	4.5	...	21	41	59.03	29	25	57.1	4	0.72
545	U Cephei, Var. 5	6.8	4	21	44	53.73	20	24	19.4	5	0.76
546	16 Pegasi	5.0	...	21	47	36.12	64	38	17.3	9	0.78
547	W. B. E. XXI. 1334	8.0	2	21	59	11.99	98	16	39.2	5	0.81
548	34 Aquarii α	3.2	...	21	59	37.09	90	54	5.9	4	0.78
549	17 Cephei ξ —2nd	4.4	...	22	0	18.97	25	57	21.2	5	0.72
550	"	9.5	5	22	1	44.02	98	31	57.2	5	0.82
551	15 Piscis Australis	5.3	...	22	3	6.69	123	8	13.4	2	0.69
552	W. B. E. XXII. 14	7.0	...	22	3	9.96	98	7	16.6	5	0.81
553	26 Pegasi θ	3.8	...	22	4	8.82	84	23	29.4	3	0.73
554	Radcliffe 5591	5.2	3	22	6	29.96	39	46	7.7	4	0.74
555	24 Cephei	5.0	...	22	7	29.76	18	14	58.1	2	0.72
556	Radcliffe 5612	5.3	2	22	8	43.68	50	52	47.2	3	0.70
557	μ^2 Gruis	5.4	...	22	9	12.83	132	13	25.3	4	0.77
558	43 Aquarii θ	4.3	...	22	10	30.03	98	22	48.0	9	0.83
559	23 Cephei ϵ	4.2	...	22	10	36.95	33	33	14.3	3	0.74
560	47 Aquarii	5.4	...	22	14	59.16	112	11	55.6	3	0.72

534—535—537—538.—Comparison stars for Sylvia in 1880.

547—550—552.—Comparison stars for Camilla in 1880.

Observed with the Madras Meridian Circle in that Year.

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
526	2 Delphini ϵ ...	+ 2·8664	- 0·0013	- 0·001	- 12·033	- 0·330	+ 0·02	2042
527	2 Cephei θ ...	+ 1·0103	- 0·0147	+ 0·005	- 12·039	- 0·119	+ 0·03	2651
528	2 Aquarii ϵ ...	+ 3·2509	- 0·0084	- 0·000	- 12·969	- 0·356	+ 0·03	2681
529	32 Vulpeculæ ...	+ 2·5558	+ 0·0026	- 0·002	- 13·513	- 0·270	+ 0·00	2709
530	76 Draconis ...	- 3·9839	- 0·5233	+ 0·014	- 13·626	+ 0·429	- 0·01	2754
531	Radcliffe 5066 ...	- 2·5085	- 0·3095	...	- 13·739	+ 0·271	...	...
532	23 Capricorni θ ...	+ 3·3752	- 0·0128	+ 0·004	- 14·130	- 0·344	+ 0·05	2733
533	α Pavonis ...	+ 5·7346	- 0·1714	0·000	- 14·308	- 0·582	+ 0·20	Stono.
534	... ..	+ 3·6319	- 0·0223	...	- 14·355	- 0·365	...	...
535	... ..	+ 3·6298	- 0·0226	...	- 14·480	- 0·361	...	...
536	64 Cygni ζ ...	+ 2·5511	+ 0·0038	- 0·002	- 14·656	- 0·248	+ 0·07	2760
537	... ..	+ 3·6117	- 0·0225	...	- 14·755	- 0·352	...	...
538	O. A. S. 21345 ...	+ 3·5787	- 0·0220	...	- 15·109	- 0·338	...	...
539	Brisbane 7028 ...	+ 4·4019	- 0·0723	...	- 15·473	- 0·402	...	...
540	... ..	+ 4·4034	- 0·0722	...	- 15·496	- 0·402	...	...
541	22 Aquarii β ...	+ 3·1615	- 0·0071	- 0·001	- 15·653	- 0·282	+ 0·00	2797
542	8 Pegasus ϵ ...	+ 2·9451	- 0·0005	+ 0·001	- 16·341	- 0·242	- 0·01	2835
543	78 Draconis ...	+ 0·7673	- 0·0404	- 0·014	- 16·507	- 0·057	+ 0·06	2861
544	10 Cephei ν ...	+ 1·7301	+ 0·0019	- 0·000	- 16·527	- 0·136	+ 0·01	2857
545	U Cephei ...	+ 1·0743	- 0·0232	...	- 16·669	- 0·080	...	...
546	16 Pegasus ...	+ 2·7263	+ 0·0052	- 0·001	- 16·800	- 0·210	+ 0·00	2864
547	W. B. M. XXI. 1334 ...	+ 3·1701	- 0·0078	...	- 17·332	- 0·226	...	...
548	34 Aquarii α ...	+ 3·0829	- 0·0041	- 0·001	- 17·351	- 0·219	- 0·00	2890
549	17 Cephei ξ ...	+ 1·7022	+ 0·0026	+ 0·028	- 17·381	- 0·117	- 0·07	2907
550	... ..	+ 3·1712	- 0·0078	...	- 17·442	- 0·222	...	...
551	15 Piscis Australis ...	+ 3·4983	- 0·0256	...	- 17·502	- 0·242	...	...
552	W. B. M. XXII. 14 ...	+ 3·1654	- 0·0075	...	- 17·508	- 0·218	...	...
553	26 Pegasus θ ...	+ 3·0087	- 0·0012	+ 0·018	- 17·545	- 0·205	- 0·04	2914
554	Radcliffe 5591 ...	+ 2·3088	+ 0·0126	...	- 17·645	- 0·152	...	...
555	24 Cephei ...	+ 1·1610	- 0·0217	+ 0·002	- 17·686	- 0·072	+ 0·01	2932
556	Radcliffe 5612 ...	+ 2·5650	+ 0·0111	...	- 17·736	- 0·167	...	...
557	μ^3 Gruis ...	+ 3·6362	- 0·0365	...	- 17·756	- 0·240	...	...
558	43 Aquarii θ ...	+ 3·1628	- 0·0075	+ 0·006	- 17·808	- 0·205	+ 0·02	2929
559	23 Cephei ϵ ...	+ 2·1464	+ 0·0128	+ 0·054	- 17·811	- 0·136	- 0·03	2937
560	47 Aquarii ...	+ 3·3136	- 0·0160	- 0·003	- 17·985	- 0·206	+ 0·07	2940

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
561	48 Aquarii γ	4.1	...	22	15	27.44	91	59	28.5	12	0.82
562	2 Lacertæ	4.8	...	22	16	3.93	44	4	0.7	4	0.75
563	8 Tucanæ	4.8	...	22	18	46.82	155	34	35.8	3	0.76
564	R. P. L. 150	5.5	...	22	22	37.49	4	29	47.5	4	0.67
565	7 Lacertæ α	3.9	...	22	26	20.71	40	20	2.6	2	0.73
566	59 Aquarii ν	5.2	...	22	28	7.68	111	19	18.5	5	0.74
567	62 Aquarii η	4.2	...	22	29	11.32	90	44	6.3	7	0.83
568	42 Pegasi ζ	3.6	...	22	35	28.53	79	47	39.1	9	0.83
569	ρ Gruis	5.2	...	22	36	32.15	132	2	21.1	4	0.74
570	η Gruis	5.1	...	22	38	15.30	144	7	49.5	3	0.76
571	32 Cephei ϵ	3.6	...	22	45	24.56	24	25	49.0	3	0.77
572	ρ Indi	6.2	...	22	46	17.27	160	42	50.7	3	0.76
573	73 Aquarii λ	3.8	...	22	46	21.12	98	13	2.5	7	0.86
574	54 Pegasi α (<i>Markab</i>) ...	2.6	...	22	58	46.90	75	26	24.8	3	0.83
575	86 Aquarii c^1	4.8	...	23	0	13.90	114	23	27.3	3	0.76
576	56 Pegasi	4.9	...	23	1	15.87	65	10	43.3	5	0.79
577	88 Aquarii c^2	3.6	...	23	3	2.75	111	49	21.9	5	0.80
578	ϵ Gruis	3.9	...	23	3	33.75	135	53	48.0	3	0.81
579	33 Cephei π	4.5	...	23	4	5.01	15	15	38.7	5	0.83
580	6 Piscium γ	3.8	...	23	10	56.62	87	22	22.2	7	0.85
581	8 Andromedæ	4.9	...	23	12	11.00	41	38	21.3	1	0.75
582	95 Aquarii ψ^3	5.1	...	23	12	43.15	100	15	59.2	5	0.77
583	68 Pegasi ν	4.6	...	23	19	23.33	67	15	23.5	2	0.76
584	8 Piscium κ	5.0	...	23	20	46.83	89	24	2.6	6	0.82
585	Radcliffe 6084	5.5	2	23	22	12.18	20	17	59.4	4	0.77
586	R. P. L. 158	5.7	...	23	27	48.79	3	21	18.9	4	0.30
587	... ..	9.0	2	23	29	48.36	138	7	48.5	2	0.81
588	16 Andromedæ λ	4.0	...	23	31	41.31	44	11	30.4	2	0.76
589	17 Andromedæ ϵ	4.3	...	23	32	15.00	47	23	43.7	3	0.77
590	6 Phœnicis—2nd	6.5	...	23	33	1.25	137	18	13.4	3	0.84
591	... ..	9.5	5	23	33	26.13	138	15	14.3	5	0.84
592	... ..	6.7	2	23	33	32.86	137	59	28.5	2	0.88
593	102 Aquarii ω^1	5.2	...	23	33	33.55	104	53	6.7	5	0.80
594	17 Piscium ϵ	4.3	...	23	33	46.68	85	1	24.4	1	0.75
595	19 Andromedæ κ	4.4	...	23	34	29.87	46	19	47.1	3	0.81

564.—Groombridge 3820.

586.—Groombridge 4101.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
561	48 Aquarii γ ...	+ 3.0928	- 0.0042	+ 0.007	- 18.004	- 0.191	- 0.02	2943
562	2 Lacertæ ...	+ 2.4672	+ 0.0138	- 0.001	- 18.028	- 0.150	+ 0.02	2948
563	8 Tucanæ ...	+ 4.3307	- 0.1121	0.000	- 18.120	- 0.263	0.00	Stone
564	R. P. L. 150 ...	- 3.9361	- 1.2322	+ 0.052	- 18.271	+ 0.245	- 0.04	2993
565	7 Lacertæ α ...	+ 2.4467	+ 0.0166	+ 0.013	- 18.403	- 0.134	- 0.01	2975
566	59 Aquarii ν ...	+ 3.2759	- 0.0151	+ 0.014	- 18.464	- 0.179	+ 0.15	2976
567	62 Aquarii η ...	+ 3.0789	- 0.0031	+ 0.006	- 18.500	- 0.166	+ 0.11	2979
568	42 Pegasi ζ ...	+ 2.9855	+ 0.0023	+ 0.004	- 18.705	- 0.149	+ 0.02	2992
569	ρ Gruis ...	+ 3.5017	- 0.0349	...	- 18.739	- 0.175	...	...
570	η Gruis ...	+ 3.7178	- 0.0577	- 0.002	- 18.792	- 0.182	0.00	Stone
571	32 Cephei ι ...	+ 2.1313	+ 0.0225	- 0.014	- 19.002	- 0.092	+ 0.14	3022
572	ρ Indi... ..	+ 4.2800	- 0.1477	...	- 19.026	- 0.190	...	...
573	73 Aquarii λ ...	+ 3.1333	- 0.0063	- 0.002	- 19.027	- 0.137	- 0.04	3019
574	54 Pegasi α ...	+ 2.9807	+ 0.0056	+ 0.003	- 19.342	- 0.107	+ 0.03	3050
575	86 Aquarii ϵ^1 ...	+ 3.2286	- 0.0159	+ 0.004	- 19.376	- 0.114	- 0.00	3053
576	56 Pegasi ...	+ 2.9156	+ 0.0108	- 0.001	- 19.399	- 0.100	+ 0.03	3057
577	88 Aquarii ϵ^2 ...	+ 3.2040	- 0.0139	+ 0.001	- 19.438	- 0.107	- 0.05	3062
578	ι Gruis ...	+ 3.4086	- 0.0378	+ 0.007	- 19.450	- 0.114	+ 0.04	Stone
579	33 Cephei π ...	+ 1.8887	+ 0.0236	+ 0.004	- 19.460	- 0.059	+ 0.04	3074
580	6 Piscium γ ...	+ 3.0592	+ 0.0005	+ 0.049	- 19.596	- 0.087	- 0.02	3082
581	8 Andromedæ ...	+ 2.7609	+ 0.0255	+ 0.002	- 19.618	- 0.045	+ 0.01	3089
582	95 Aquarii ψ^3 ...	+ 3.1219	- 0.0061	+ 0.002	- 19.629	- 0.086	- 0.01	3087
583	68 Pegasi ν ...	+ 2.9735	+ 0.0111	+ 0.011	- 19.739	- 0.069	- 0.04	3114
584	8 Piscium κ ...	+ 3.0699	0.0000	+ 0.004	- 19.761	- 0.069	+ 0.10	3116
585	Radeliffæ 6084 ...	+ 2.4788	+ 0.0489	...	- 19.783	- 0.052	...	...
586	R. P. L. 158 ...	- 0.1201	- 0.5422	+ 0.084	- 19.857	+ 0.011	- 0.00	3147
587	... ..	+ 3.2682	- 0.0372	...	- 19.880	- 0.054	...	...
588	16 Andromedæ λ ...	+ 2.9028	+ 0.0265	+ 0.016	- 19.901	- 0.044	+ 0.43	3143
589	17 Andromedæ ι ...	+ 2.9239	+ 0.0250	+ 0.001	- 19.907	- 0.043	+ 0.01	...
590	0 Phœnicis -2nd ...	+ 3.2425	- 0.0354	...	- 19.915	- 0.047	...	3144
591	... ..	+ 3.2456	- 0.0368	...	- 19.919	- 0.046	...	...
592	... ..	+ 3.2432	- 0.0364	...	- 19.920	- 0.046	...	...
593	102 Aquarii ω^1 ...	+ 3.1130	- 0.0077	+ 0.002	- 19.921	- 0.044	+ 0.04	3145
594	17 Piscium ι ...	+ 3.0590	+ 0.0030	+ 0.023	- 19.923	- 0.042	+ 0.44	3148
595	19 Andromedæ κ ...	+ 2.9306	+ 0.0262	+ 0.007	- 19.930	- 0.042	+ 0.02	3149

Mean Positions of Stars for 1880, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
596	78 Pegasi	4.9	...	23	37	57.36	61	18	7.6	1	0.76
597	106 Aquarii ϵ^1	5.3	...	23	37	58.44	108	56	33.3	3	0.77
598	Radcliffe 6184	5.5	1	23	42	10.68	22	51	34.7	1	0.77
599	δ Sculptoris	4.6	...	23	42	40.32	118	47	38.9	1	0.88
600	28 Piscium ω	4.2	...	23	53	8.93	83	48	2.6	7	0.83
601	... ..	10.5	2	23	54	0.44	101	21	23.8	2	0.93
602	τ Phœnicis	5.8	...	23	54	54.44	139	28	40.4	5	0.78
603	Radcliffe 6265	5.5	2	23	55	29.82	29	26	42.7	4	0.79
604	ζ Sculptoris	5.0	...	23	56	10.72	120	23	21.8	1	0.77

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
596	78 Pegasi ...	+ 3.0020	+ 0.0162	+ 0.005	- 19.962	- 0.034	+ 0.03	3160
597	106 Aquarii δ^1 ...	+ 3.1163	- 0.0099	+ 0.001	- 19.962	- 0.035	+ 0.01	3159
598	Radcliffe 6184 ...	+ 2.8260	+ 0.0601	- 0.004	- 19.993	- 0.023	+ 0.01	3166
599	δ Sculptoris ...	+ 3.1278	- 0.0161	+ 0.009	- 19.996	- 0.026	+ 0.10	Stone
600	28 Piscium ω ...	+ 3.0679	+ 0.0047	+ 0.009	- 20.045	- 0.005	+ 0.11	3191
601	... ..	+ 3.0793	- 0.0045	...	- 20.048	- 0.003	...	...
602	τ Phœnicis ...	+ 3.1070	- 0.0342	- 0.011	- 20.049	- 0.002	+ 0.04	Stone
603	Radcliffe 6265 ...	+ 3.0257	+ 0.0528	...	- 20.050	0.000	...	...
604	ζ Sculptoris ...	+ 3.0854	- 0.0160	...	- 20.051	+ 0.001	...	...

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1881

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.
1 <i>21 Andromedæ α, Alpherat.</i>						7 <i>Anon.</i>					
Oct. 17	...	0 2 14.25	...	61 34 0.8	R	Oct. 7	8.0	0 10 23.75 ⁴⁶	...	153 49 24.3	R
18	...	2 14.24	...	34 1.1	R	8 <i>Stone 88.</i>					
Nov. 7	...	2 14.19	...	33 59.1	M	Oct. 17	8.0	0 10 46.83	...	157 21 11.2	R
14	...	2 14.16	...	34 0.1	M	Nov. 10	8.0	10 46.70	...	21 12.0	M
Dec. 1	...	2 14.16	...	33 58.4	R	18	8.0	10 46.94	...	21 10.0	M
5	...	2 14.27	...	33 58.8	R	21	8.0	10 46.78	...	21 10.1	M
6	...	2 14.19	...	33 58.2	R	24	8.0	10 46.76	3	21 12.3	M
7	...	2 14.32	...	33 58.1	R	9 <i>8 Ceti</i>					
2 <i>Anon.</i>						Oct. 14	...	0 13 21.79	...	99 29 1.9	R
Sep. 30	7.0	0 2 45.72	...	137 43 21.8	M	15	...	13 21.88	...	29 1.4	R
Oct. 11	7.0	2 45.83	...	43 17.8	R	19	...	13 21.78	...	29 1.6	R
12	7.0	2 45.79	...	43 18.2	R	23	...	13 21.76	...	29 3.4	R
14	7.0	2 45.78	...	43 17.7	R	24	...	13 21.80	...	29 4.2	R
15	7.0	2 45.74	...	43 17.3	R	25	...	13 21.69	...	29 4.2	R
3 <i>Anon.</i>						Nov. 17	...	13 21.67	...	29 1.7	M
Oct. 26	8.0	0 4 7.50	...	153 57 32.8	R	Dec. 2	...	13 21.75	...	29 1.4	R
Nov. 10	8.5	4 7.38	4	57 29.7	M	5	...	13 21.86	...	29 2.2	R
17	8.0	4 7.47	...	57 29.0	M	10 <i>Anon.</i>					
18	8.0	4 7.48	...	57 30.5	M	Oct. 12	8.0	0 15 17.33	...	155 46 27.6	R
24	8.0	4 7.48	...	57 28.9	M	21	8.0	15 17.42	...	46 29.8	R
4 <i>Anon.</i>						28	8.5	15 17.38	...	46 30.2	R
Oct. 8	8.0	0 5 33.63	...	150 9 54.3	R	Nov. 25	8.0	15 17.50	...	46 29.1	M
13	8.5	5 33.75	...	9 56.0	R	Dec. 7	8.0	15 17.19	...	46 27.7	R
24	8.0	5 33.79	...	9 58.0	R	11 <i>Lacaille 56.</i>					
25	8.0	5 33.83	...	9 57.3	R	Oct. 11	8.0	0 15 47.22	...	144 55 25.8	R
27	8.5	5 33.65	...	9 57.1	R	13	7.5	15 47.28	...	55 26.2	R
5 <i>88 Pegasi γ, Algenib.</i>						26	7.5	15 47.15	...	55 24.1	R
Nov. 30	...	0 7 6.43	...	75 28 40.6	M	Nov. 9	...	15 47.15	4	55 23.7	M
6 <i>Anon.</i>						23	7.5	15 47.25	...	55 24.0	M
Oct. 19	7.0	0 8 30.59	...	153 26 8.3	R	12 <i>Anon.</i>					
20	7.0	8 30.65	...	26 9.5	R	Oct. 14	8.0	0 17 31.60	...	155 46 45.9	R
28	7.0	8 30.51	...	26 9.4	R	Nov. 10	8.0	0 17 31.72	5	155 46 49.5	M
Nov. 9	7.0	8 30.55	...	26 6.7	M	18	...	17 31.51	5	46 51.3	M
16	7.0	8 30.44	...	26 4.6	M						

Separate Results of Madras Meridian Circle Observations in 1881.

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13 <i>Anon.</i>						20 <i>Anon.</i>					
Oct. 10	8.0	0 19 34.48	...	148 55 31.8	R	Oct. 21	8.5	0 29 26.74	...	154 20 7.8	R
19	8.0	19 34.57	...	55 35.5	R	22	8.5	29 26.65	...	20 4.0	R
Dec. 1	8.0	19 34.38	...	55 32.6	R	25	9.0	29 26.72	...	20 7.1	R
14 <i>Anon.</i>						29	9.0	29 26.84	...	20 6.8	R
Oct. 17	8.0	0 20 5.66	...	158 24 16.3	R	Nov. 10	9.0	29 26.58	...	20 5.6	M
29	8.0	20 5.56	...	24 17.8	R	21 <i>31 Andromedæ δ</i>					
Nov. 17	8.0	20 5.62	6	24 19.1	M	Dec. 7	...	0 32 58.01	...	59 47 27.5	R
21	8.0	20 5.66	5	24 15.0	M	14	...	32 57.81	...	47 24.3	R
24	...	20 5.58	...	24 15.4	M	15	...	32 57.95	...	47 24.4	R
15 <i>Anon.</i>						16	...	32 57.88	...	47 24.2	R
Oct. 12	8.5	0 22 48.95	...	156 34 16.3	R	17	...	32 57.88	...	47 25.7	R
21	8.5	22 49.17	...	34 20.1	R	22 <i>Lacaille 179.</i>					
28	8.5	22 49.00	...	34 16.4	R	Oct. 17	9.0	0 35 47.49	...	158 50 26.3	R
Nov. 16	8.0	22 49.04	...	34 15.8	M	19	8.0	35 47.56	...	50 28.8	R
23	8.5	22 49.01	...	34 14.7	M	20	8.0	35 47.66	...	50 30.1	R
16 <i>Taylor 103.</i>						24	8.0	35 47.67	...	50 28.7	R
Oct. 14	6.7	0 22 57.20	...	141 11 31.0	R	26	8.5	35 47.54	...	50 29.3	R
22	6.5	22 57.40	...	11 31.9	R	23 <i>Anon.</i>					
24	6.5	22 57.38	...	11 32.9	R	Oct. 7	8.0	0 36 51.35	...	152 1 4.6	R
25	6.5	22 57.36	...	11 33.0	R	21	8.0	36 51.47	...	1 9.0	R
27	6.5	22 57.20	...	11 32.5	R	22	8.0	36 51.34	...	1 4.5	R
17 <i>12 Ceti.</i>						25	8.5	36 51.46	5	1 8.1	R
Oct. 20	...	0 23 57.92	...	94 36 55.4	R	28	8.5	36 51.39	...	1 8.5	R
26	...	23 57.89	...	36 57.2	R	24 <i>16 Ceti β</i>					
18 <i>Anon.</i>						Oct. 27	...	0 37 36.81	...	108 38 25.4	R
Oct. 15	8.0	0 28 2.21	...	154 20 3.3	R	Nov. 9	...	37 36.76	...	38 24.9	M
19	8.0	28 2.27	...	20 5.6	R	16	...	37 36.71	...	38 26.7	M
24	8.0	28 2.25	...	20 4.9	R	25 <i>24 Cassiopeiæ η—1st.</i>					
Nov. 16	8.0	28 2.23	...	20 3.1	M	Dec. 2	...	0 41 54.84	...	32 48 55.0	R
17	8.0	28 2.25	...	20 3.4	M	26 <i>24 Cassiopeiæ η—2nd.</i>					
19 <i>Lacaille 132.</i>						Nov. 25	8.0	0 41 54.84	...	32 49 3.0	M
Oct. 7	8.0	0 28 5.69	...	151 48 15.9	R	Dec. 15	8.0	41 54.91	...	40 3.7	R

Separate Results of Madras Meridian Circle Observations in 1881.

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27 <i>63 Piscium δ</i>						32 <i>Anon.</i>					
Oct. 28	...	0 42 30.40	...	83 3 46.7	R	Oct. 21	7.5	0 51 15.65	...	148 13 58.1	R
29	...	42 30.41	...	3 45.0	R	22	7.5	51 15.43	...	13 55.4	R
Nov. 10	...	42 30.46	...	3 45.1	M	Nov. 17	8.0	51 15.57	...	13 53.2	M
17	...	42 30.50	...	3 43.0	M	18	8.0	51 15.30	...	13 56.1	M
18	...	42 30.39	...	3 45.7	M	24	...	51 15.50	...	13 56.2	M
21	...	42 30.38	...	3 43.9	M	33 <i>2 Ursæ Minoris.</i>					
23	...	42 30.43	...	3 44.3	M	Oct. 7	...	0 52 42.67	3	4 22 56.2	R
24	...	42 30.57	...	3 43.6	M	26	...	52 42.42	3	22 57.1	R
26	...	42 30.39	...	3 46.3	M	34 <i>R. P. L. 14.</i>					
Dec. 6	...	42 30.54	...	3 45.4	R	Dec. 15	...	0 56 19.65	2	3 29 21.1	R
7	...	42 30.51	...	3 45.0	R	23	...	56 20.34	3	29 20.7	R
12	...	42 30.44	...	3 46.7	R	35 <i>71 Piscium ε</i>					
28 <i>Anon.</i>						Nov. 21	...	0 56 46.07	...	82 45 3.9	M
Oct. 21	7.5	0 43 43.61	...	151 1 13.0	R	23	...	56 45.99	...	45 2.9	M
22	7.5	43 43.54	...	1 13.9	R	24	...	56 46.05	...	45 3.8	M
24	7.5	43 43.45	...	1 13.4	R	36 <i>Anon.—2nd Star.</i>					
25	7.5	43 43.53	...	1 13.0	R	Oct. 22	8.0	0 56 52.83	...	132 45 56.7	R
26	7.5	43 43.44	...	1 12.7	R	24	8.0	56 52.84	...	45 57.4	R
29 <i>Anon.</i>						27	8.0	56 52.74	5	46 0.9	R
Oct. 19	7.5	0 47 40.12	...	154 23 26.6	R	28	8.0	56 52.68	...	46 1.0	R
20	8.0	47 40.18	...	23 27.1	R	29	8.0	56 52.71	...	45 59.4	R
27	8.0	47 39.94	...	23 27.0	R	37 <i>Anon.</i>					
29	8.0	47 39.98	...	23 26.4	R	Oct. 21	8.0	0 57 27.97	...	147 58 57.8	R
Nov. 9	...	47 39.90	...	23 23.6	M	Nov. 5	...	57 27.87	...	58 55.0	M
30 <i>27 Cassiopeiæ γ</i>						9	...	57 27.82	...	58 56.7	M
Dec. 16	...	0 49 32.25	...	29 55 39.2	R	10	...	57 27.70	6	58 55.6	M
17	...	49 32.35	...	55 38.5	R	16	8.0	57 27.79	...	58 54.8	M
31 <i>Anon.</i>						38 <i>30 Cassiopeiæ μ</i>					
Oct. 24	8.0	0 49 33.51	...	132 37 27.4	R	Nov. 25	...	1 0 21.77	...	35 39 52.2	M
28	8.5	49 33.46	...	37 24.7	R	30	...	0 21.75	...	39 54.2	M
Nov. 16	9.0	49 33.43	...	37 25.3	M	Dec. 2	...	0 21.80	...	39 52.0	R
21	8.0	49 33.49	...	37 28.0	M	12	...	0 21.74	...	39 51.7	R
23	8.0	49 33.40	...	37 26.2	M	17	...	0 21.96	...	39 52.3	R

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881.			No. of Wires.	Mean Polar Distance 1881.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
39 <i>Anon.</i>									
Oct. 26	9.0	1	2	5.63	...	150	36	10.2	R
29	9.0		2	5.66	...		36	10.9	R
Nov. 17	9.0		2	5.50	...		36	10.9	M
18	...		2	5.65	...		36	11.4	M
24	9.0		2	5.63	...		36	10.7	M
40 <i>43 Andromedæ β</i>									
Dec. 14	...	1	3	4.36	...	55	0	37.2	R
16	...		3	4.25	...		0	38.9	R
21	...		3	4.21	...		0	37.4	R
41 <i>Anon.</i>									
Oct. 25	9.0	1	6	8.57	...	134	21	44.1	R
27	9.0		6	8.57	...		21	42.8	R
Nov. 10	9.0		6	8.55	6		21	43.2	M
16	9.0		6	8.38	...		21	42.0	M
21	9.0		6	8.51	...		21	43.7	M
42 <i>Anon.</i>									
Oct. 28	8.0	1	9	27.59	...	151	38	26.1	R
Nov. 17	8.0		9	27.50	...		38	23.8	M
23	8.0		9	27.50	...		38	21.9	M
24	8.0		9	27.43	...		38	21.5	M
25	...		9	27.61	2		38	23.9	M
43 <i>Stone 487.</i>									
Nov. 26	7.0	1	10	35.12	...	124	46	40.7	M
30	...		10	35.24	5		46	42.0	M
Dec. 2	7.0		10	35.16	4		46	38.4	R
7	7.0		10	35.25	...		46	42.2	R
12	7.0		10	35.22	...		46	41.2	R
44 <i>Anon.</i>									
Oct. 29	7.5	1	10	51.73	...	152	44	24.8	R
Nov. 9	...		10	51.74	...		44	22.4	M
16	8.0		10	51.56	...		44	21.8	M
18	...		10	51.76	5		44	24.4	M
21	7.5		10	51.68	...		44	21.8	M
45 <i>R. P. L. 18—s.p.</i>									
May 10	...	1	13	7.81	2	2	3	31.2	M
27	...		13	7.40	3		3	31.3	M
46 <i>1 Ursæ Minoris α, Polaris—s.p.</i>									
May 21	...	1	15	6.39	3	1	19	32.8	M
47 <i>Anon.</i>									
Oct. 24	9.5	1	16	55.12	...	122	55	23.8	R
27	9.5		16	55.08	...		55	24.5	R
Nov. 10	...		16	55.06	6		55	23.7	M
Dec. 7	9.5		16	55.01	...		55	21.7	R
16	9.5		16	55.01	...		55	22.0	R
48 <i>45 Ceti θ¹</i>									
Nov. 30	...	1	18	4.49	...	98	47	52.7	M
Dec. 6	...		18	4.41	...		47	53.0	R
12	...		18	4.47	...		47	52.7	R
49 <i>Taylor 454.</i>									
Oct. 25	7.0	1	18	39.52	...	122	25	53.3	R
28	7.0		18	39.64	...		25	53.5	R
Nov. 5	...		18	39.45	...		25	52.9	M
17	7.0		18	39.55	...		25	51.2	M
Dec. 1	7.0		18	39.48	...		25	51.6	R
50 <i>Anon.</i>									
Oct. 26	9.5	1	19	10.05	...	123	11	0.0	R
29	9.5		19	10.14	...		10	59.7	R
Nov. 16	9.5		19	9.98	...		10	58.4	M
Dec. 21	9.3		19	10.02	...		10	56.4	R
23	9.3		19	10.11	4		10	56.1	R
51 <i>Anon.</i>									
Nov. 21	9.5	1	19	30.37	...	123	28	37.8	M
Dec. 14	9.3		19	30.28	...		28	34.2	R
26	9.3		19	30.47	...		28	34.9	R
27	9.3		19	30.29	4		28	35.1	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
52 <i>Anon.</i>										60 <i>Anon.</i>									
Dec. 17	10.0	1	20	1.58	...	122	56	55.3	R	Oct. 28	8.0	1	30	25.47	...	130	26	52.5	R
53 <i>Anon.</i>										Nov. 9	...	30	25.42	...	...	26	51.6	M	
Nov. 25	...	1	20	59.85	...	123	10	12.4	M	10	8.0	30	25.40	...	...	26	52.8	M	
54 <i>Anon.</i>										16	8.0	30	25.43	...	...	26	51.7	M	
Oct. 24	9.0	1	22	59.33	...	123	37	59.3	R	24	8.0	30	25.45	...	...	26	50.3	M	
Dec. 7	9.0	22	59.38	...	...	38	1.2	R		61 <i>Taylor 552.</i>									
16	9.0	22	59.34	...	...	37	56.8	R		Oct. 29	7.5	1	34	11.36	...	141	2	34.2	R
21	9.0	22	59.15	...	...	37	57.0	R		Nov. 17	7.5	34	11.44	...	...	2	31.8	M	
55 <i>Anon.</i>										18	...	34	11.42	...	...	2	33.5	M	
Oct. 26	9.0	1	23	25.03	...	122	39	17.5	R	23	7.5	34	11.39	...	...	2	30.6	M	
27	9.0	23	25.03	...	...	39	18.2	R		25	7.5	34	11.32	...	...	2	34.3	M	
Nov. 17	9.0	23	25.02	6	...	39	16.9	M		62 <i>106 Piscium v</i>									
Dec. 23	9.0	23	24.88	...	...	39	17.2	R		Jan. 4	...	1	35	14.31	...	85	6	54.7	M
26	9.0	23	24.87	...	...	39	16.1	R		Nov. 26	...	35	14.36	...	...	6	52.0	M	
56 <i>Anon.</i>										Dec. 12	...	35	14.33	...	...	6	52.7	R	
Nov. 23	8.0	1	23	43.43	...	131	15	49.9	M	27	...	35	14.26	...	...	6	53.5	R	
57 <i>Anon.</i>										63 <i>Lacaille 490, (Stone 670).</i>									
Oct. 25	9.0	1	24	30.47	...	123	39	56.5	R	Nov. 7	7.0	1	35	19.10	...	127	4	55.2	M
28	9.0	24	30.55	...	...	39	59.9	R		21	7.0	35	19.11	3	...	4	54.8	M	
29	9.0	24	30.45	...	...	39	59.7	R		24	7.0	35	18.90	...	...	4	53.4	M	
Nov. 16	9.0	24	30.50	...	...	39	55.0	M		30	...	35	18.96	...	...	4	56.5	M	
18	...	24	30.54	...	...	39	57.2	M		Dec. 7	7.0	35	18.88	...	...	4	54.8	R	
58 <i>99 Piscium η</i>										64 <i>Anon.</i>									
Dec. 15	...	1	25	6.91	...	75	16	4.5	R	Nov. 5	...	1	37	41.58	...	126	7	32.4	M
17	...	25	6.87	...	...	16	3.7	R		Dec. 2	9.0	37	41.75	...	...	7	30.4	R	
59 <i>Stone 625.</i>										16	9.0	37	41.55	...	...	7	31.2	R	
Dec. 1	7.0	1	29	24.81	...	122	30	3.6	R	17	9.0	37	41.47	...	...	7	30.3	R	
2	6.5	29	24.96	...	...	30	3.5	R		23	9.0	37	41.46	...	...	7	29.7	R	
7	6.5	29	24.95	...	...	30	3.4	R		65 <i>110 Piscium o</i>									
14	6.5	29	24.84	...	...	30	2.5	R		Jan. 3	...	1	39	6.71	...	81	26	30.0	M
15	6.5	29	24.95	30	1.8	R		Nov. 18	...	39	6.52	26	32.7	M	
										25	...	39	6.53	26	32.4	M	
										Dec. 22	...	39	6.64	26	29.5	R	
										26	...	39	6.53	26	30.1	R	

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66 <i>Lacaille 541.</i>						72 <i>Stone 786.</i>					
Nov. 7	7.0	1 45 50.83	...	131 29 40.6	M	Nov. 24	7.0	1 53 29.70	...	131 44 54.8	M
9	...	45 50.85	...	29 42.8	M	25	...	53 29.85	...	44 55.9	M
10	7.0	45 50.86	...	29 42.5	M	26	...	53 29.63	6	44 56.5	M
16	7.0	45 50.75	...	29 42.2	M	30	...	53 29.63	...	44 56.5	M
17	...	45 50.98	...	29 38.8	M	Dec. 1	6.7	53 29.71	...	44 56.0	R
67 <i>Stone 739.</i>						73 <i>Anon.</i>					
Dec. 6	6.5	1 46 22.01	...	130 25 24.8	R	Dec. 15	9.0	1 55 40.76	...	87 41 51.1	R
7	6.5	46 22.00	...	25 27.1	R	27	9.0	55 40.69	...	41 49.1	R
16	6.3	46 21.92	...	25 26.5	R	74 <i>O. A. S. 1255.</i>					
23	6.5	46 22.02	...	25 26.8	R	Nov. 7	7.0	1 57 8.29	...	120 14 23.7	N
23	6.5	46 21.92	4	25 26.5	R	9	7.0	57 8.32	...	14 23.7	M
68 <i>Anon.</i>						10	7.0	57 8.44	...	14 23.9	M
Nov. 21	7.5	1 47 8.34	...	130 15 41.0	M	16	7.0	57 8.29	...	14 23.4	M
23	7.3	47 8.33	...	15 40.8	M	18	...	57 8.32	...	14 25.5	M
24	7.5	47 8.44	...	15 42.3	M	75 <i>Anon.</i>					
25	...	47 8.49	...	15 41.5	M	Dec. 12	7.0	1 58 45.67	...	131 2 33.9	R
Dec. 14	7.5	47 8.33	...	15 39.5	R	16	7.5	58 45.69	...	2 35.0	R
69 <i>6 Arietis β</i>						17	7.0	58 45.61	...	2 34.2	R
Jan. 3	...	1 48 3.95	...	69 46 29.3	M	22	7.0	58 45.74	...	2 31.8	R
4	...	48 3.96	...	46 27.3	M	23	7.0	58 45.55	...	2 33.4	R
6	...	48 3.97	...	46 27.5	M	76 <i>Anon.</i>					
Dec. 21	...	48 4.01	...	46 27.5	R	Nov. 21	9.5	2 0 7.92	...	87 56 20.0	M
70 <i>Stone 762.</i>						23	9.0	0 7.93	...	56 19.6	M
Dec. 12	6.0	1 50 46.50	...	126 49 41.5	R	24	9.0	0 7.98	...	56 18.8	M
23	7.0	50 46.60	...	49 39.5	R	Dec. 6	9.0	0 8.01	...	56 20.2	R
26	7.0	50 46.60	...	49 41.7	R	7	9.0	0 8.06	...	56 20.0	R
71 <i>Stone 779.</i>						77 <i>Lacaille 630, (Stone 829).</i>					
Dec. 7	8.0	1 52 32.81	...	131 13 5.7	R	Nov. 30	6.5	2 0 24.59	6	145 27 5.5	M
14	8.0	52 32.71	...	13 5.6	R	78 <i>Stone 837.</i>					
16	8.0	52 32.76	...	13 4.9	R	Dec. 14	7.0	2 1 34.09	...	127 41 10.4	R
17	8.0	52 32.89	...	13 3.9	R	15	7.0	1 34.10	...	41 10.5	R
22	8.0	52 32.90	...	13 3.4	R	26	7.0	1 34.20	...	41 10.3	R
						27	7.0	1 34.11	...	41 10.1	R

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79 <i>Lacaille 658.</i>						85 <i>Stone 914.</i>					
Nov. 16	8.0	2 5 30.37	...	126 4 16.3	M	Nov. 30	7.0	2 12 17.09	...	126 32 11.9	M
18	...	5 30.40	5	4 16.8	M	Dec. 22	6.5	12 17.03	...	32 9.3	B
25	...	5 30.43	...	4 17.7	M	86 <i>W. B. E. II. 161.</i>					
26	...	5 30.27	...	4 18.9	M	Nov. 21	7.5	3 12 29.35	4	86 21 9.2	M
Dec. 1	8.0	5 30.40	...	4 19.0	R	Dec. 1	7.0	12 29.18	...	21 10.5	R
80 <i>Anon.</i>						6	7.0	12 29.20	...	21 10.1	R
Dec. 12	8.0	2 6 47.33	...	132 25 47.9	R	12	7.0	12 29.27	...	21 9.0	R
17	8.0	6 47.44	...	25 46.1	R	15	7.0	12 29.20	...	21 9.7	R
23	8.0	6 47.26	...	25 44.8	R	87 <i>W. B. E. II. 177.</i>					
24	8.0	6 47.47	...	25 46.0	R	Nov. 24	7.5	2 13 18.42	...	87 43 38.9	M
81 <i>W. B. E. II. 104.</i>						Dec. 27	8.0	13 18.44	4	43 39.2	R
Dec. 14	9.0	2 8 56.33	...	86 42 7.8	R	88 <i>Stone 938.</i>					
15	9.0	8 56.31	4	42 6.3	R	Dec. 14	6.5	2 16 37.05	...	147 19 45.8	R
26	9.0	8 56.69	...	42 6.5	R	16	6.5	16 37.15	...	19 47.3	R
82 <i>Taylor 790.</i>						17	6.5	16 37.08	...	19 46.6	R
Nov. 7	6.5	2 9 42.36	...	131 43 19.9	M	26	6.3	16 37.16	...	19 46.4	R
9	6.5	9 42.35	...	43 19.6	M	89 <i>Lacaille 731.</i>					
10	...	9 42.36	...	43 19.9	M	Nov. 7	6.5	2 19 46.28	...	131 23 0.9	M
Dec. 7	6.0	9 42.90	...	43 19.9	R	9	6.5	19 46.31	...	23 1.4	M
83 <i>W. B. E. II. 126.</i>						16	6.0	19 46.19	...	23 1.9	M
Nov. 23	8.5	2 10 19.70	...	86 37 4.2	M	18	...	19 46.32	...	23 2.8	M
Dec. 2	8.0	10 19.39	...	37 1.8	R	Dec. 2	6.0	19 46.27	4	23 0.6	R
16	8.0	10 19.90	...	37 4.8	R	90 <i>73 Ceti ξ^2</i>					
17	8.0	10 19.31	...	37 3.9	R	Jan. 5	...	2 21 49.37	...	82 4 27.2	M
84 <i>67 Ceti.</i>						6	...	21 49.78	...	4 26.5	M
Jan. 3	...	2 11 2.78	...	96 58 15.9	M	8	...	21 49.38	...	4 27.9	M
4	...	11 2.72	...	58 16.1	M	Dec. 7	...	21 49.36	...	4 27.2	R
5	...	11 2.94	...	58 16.1	M	14	...	21 49.90	...	4 24.8	R
6	...	11 3.00	...	58 14.6	M	15	...	21 49.93	...	4 27.7	R
8	...	11 2.89	...	58 14.8	M	16	...	21 49.95	...	4 25.1	R
12	...	11 2.91	...	58 16.2	M	23	...	21 49.91	...	4 25.0	R
Nov. 16	...	11 2.87	...	58 16.5	M						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
91 Anon.										97 Stone 1106.									
Nov. 23	9.5	2	22	20.09	...	85	23	19.2	M	Nov. 21	6.0	2	37	51.18	...	137	1	45.3	M
Dec. 12	9.0		22	20.32	...		23	21.9	R	24	6.0		37	51.26	...		1	46.6	M
22	9.0		22	20.32	5		23	21.4	R	26	...		37	51.22	...		1	46.9	M
92 Stone 1018.										Dec. 6 6.0 37 51.18 ... 1 45.2 R									
										15 6.0 37 51.04 5 1 45.0 R									
Nov. 21	7.0	2	27	50.35	...	136	23	46.4	M	98 Stone 1145.									
24	7.0		27	50.24	...		23	47.5	M	Dec. 2	8.0	2	42	11.87	...	127	50	41.3	R
30	7.0		27	50.45	...		23	47.4	M	7	7.5		42	11.84	...		50	41.8	R
Dec. 7	7.0		27	50.32	...		23	48.0	R	12	7.5		42	11.73	...		50	41.3	R
14	7.0		27	50.47	...		23	46.8	R	14	7.5		42	11.78	...		50	40.7	R
93 Anon.										17 7.5 42 11.83 ... 50 41.0 R									
Dec. 12	8.0	2	29	20.32	...	136 ²	23	48.5	R	99 γ Horologii.									
17	8.0		29	20.42	...		23	48.0	R	Jan. 3	...	2	42	55.06	...	154	12	15.7	M
22	8.0		29	20.21	5		23	47.8	R	100 ζ Hydri.									
23	8.0		29	20.24	...		23	48.0	R	Jan. 6	...	2	43	43.19	3	158	7	3.1	M
24	8.0		29	20.26	3		23	47.1	R	15	...		43	43.25	...		7	4.2	M
94 Stone 1073.										19 ... 43 43.26 5 7 0.2 M									
Dec. 27	7.5	2	34	51.76	...	143	27	58.4	R	20 ... 43 43.08 ... 7 2.2 M									
95 Stone 1080.										101 γ Fornacis.									
Nov. 30	7.0	2	35	15.42	...	143	27	0.2	M	Jan. 4	...	2	44	34.61	...	115	3	1.2	M
Dec. 12	6.7		35	15.31	...		26	57.3	R	5	...		44	34.70	3		3	0.9	M
14	6.7		35	15.20	...		26	58.1	R	8	...		44	34.56	...		2	59.0	M
22	6.5		35	15.27	...		26	58.7	R	13	...		44	34.52	...		3	0.4	R
26	6.5		35	15.44	...		26	58.2	R	102 43 Arietis σ									
96 86 Ceti γ -2nd.										Nov. 7	...	2	44	55.32	...	75	24	32.0	M
Jan. 5	...	2	37	8.05	...	87	16	0.7	M	9	...		44	55.22	...		24	33.7	M
12	...		37	7.98	...		15	58.7	M	18	...		44	55.22	...		24	32.9	M
15	...		37	8.16	...		15	59.3	M	21	...		44	55.24	...		24	32.1	M
20	...		37	8.16	...		16	1.9	M	23	...		44	55.11	...		24	33.8	M
Dec. 1	...		37	8.16	...		15	59.4	R	24	...		44	55.35	...		24	35.8	M
2	...		37	8.03	...		15	58.1	R	25	...		44	55.32	...		24	35.4	M
16	...		37	8.09	...		15	59.9	R	26	...		44	55.25	...		24	32.5	M
17	...		37	8.06	...		15	59.0	R	Dec. 15	...		44	55.37	...		24	31.4	R
21	...		37	8.10	...		15	59.4	R	22	...		44	55.39	...		24	31.9	R
23	...		37	8.06	...		15	58.6	R	24	...		44	55.35	...		24	32.0	R
24	...		37	8.05	...		15	58.2	R	27	...		44	55.33	...		24	32.9	R

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103 <i>Stone 1185.</i>						109 <i>Anon.</i>					
Dec. 12	...	2 48 54.51	...	128 55 27.2	R	Nov. 24	7.0	3 1 16.34	...	150 25 49.0	M
14	...	48 54.47	...	55 26.2	R	Dec. 7	7.0	1 16.25	...	25 49.6	R
16	...	48 54.58	4	55 26.5	R	14	7.0	1 16.15	...	25 48.7	R
23	...	48 54.57	...	55 27.4	R	110 <i>Anon.</i>					
26	...	48 54.68	...	55 27.7	R	Dec. 12	7.0	3 3 29.57	...	129 45 21.2	R
104 <i>3 Eridani η</i>						15	7.0	3 29.61	...	45 20.3	R
Dec. 6	...	2 50 36.68	...	99 22 22.8	R	111 <i>R. P. L. 33—s. p.</i>					
105 <i>Stone 1238.</i>						June 29	...	3 4 21.28	3	5 30 53.7	R
Nov. 21	6.5	2 54 39.72	...	184 18 6.7	M	112 <i>57 Arietis δ</i>					
23	7.0	54 39.70	...	18 5.4	M	Jan. 4	...	3 4 49.51	...	70 43 26.7	M
24	7.0	54 39.79	...	18 6.5	M	13	...	4 49.50	...	43 26.0	R
25	7.0	54 39.88	...	18 4.8	M	19	...	4 49.60	...	43 26.8	M
Dec. 12	7.0	54 39.68	...	18 2.8	R	20	...	4 49.40	...	43 27.2	M
106 <i>Anon.</i>						22	...	4 49.61	...	43 27.3	M
Dec. 15	8.0	2 55 35.66	...	125 34 3.2	R	Dec. 17	...	4 49.53	...	43 24.6	R
16	8.0	55 35.55	...	34 3.3	R	26	...	4 49.49	...	43 25.7	R
17	8.0	55 35.61	...	34 2.1	R	113 <i>Anon.</i>					
22	8.0	55 35.78	...	34 2.7	R	Dec. 27	7.0	3 8 25.73	...	127 24 25.4	R
23	8.0	55 35.73	...	34 2.4	R	114 <i>Stone 1354.</i>					
107 <i>92 Ceti α, Menkar.</i>						Dec. 12	6.5	3 11 4.51	...	136 6 38.6	R
Jan. 8	...	2 56 3.52	...	86 22 40.1	M	14	6.5	11 4.55	...	6 37.6	R
12	...	56 3.59	...	22 41.9	M	17	6.5	11 4.74	...	6 40.3	R
13	...	56 3.48	...	22 39.7	R	22	6.5	11 4.60	5	6 37.9	R
15	...	56 3.55	...	22 40.3	M	115 <i>Stone 1364.</i>					
19	...	56 3.61	...	22 42.1	M	Dec. 7	6.5	3 12 10.33	...	149 57 14.9	R
20	...	56 3.55	...	22 42.9	M	15	6.5	12 10.33	...	57 12.8	R
21	...	56 3.52	...	22 40.1	M	116 <i>ε Eridani.</i>					
Nov. 17	...	56 3.41	...	22 41.5	M	Dec. 14	...	3 15 10.54	...	133 31 31.1	R
Dec. 14	...	56 3.53	...	22 40.0	R						
24	...	56 3.52	...	22 39.5	R						
26	...	56 3.61	...	22 40.1	R						
108 <i>Stone 1279.</i>											
Dec. 16	6.5	3 1 14.54	4	127 48 5.1	R						
22	7.0	1 14.62	...	48 3.9	R						
27	7.0	1 14.61	...	48 4.2	R						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>	
117 <i>Anon.</i>									
Dec. 24	7.0	3	18	12.91	...	127	0	9.5	R
27	7.0		18	13.07	...		0	10.5	R
118 <i>1 Tauri o, Var. 5.</i>									
Jan. 6	...	3	18	24.60	...	81	23	27.2	M
15	...		18	24.61	...		23	26.1	M
18	...		18	24.62	...		23	24.9	M
19	...		18	24.55	...		23	25.7	M
21	...		18	24.60	...		23	25.7	M
22	...		18	24.59	...		23	25.6	M
24	...		18	24.74	...		23	26.3	M
25	...		18	24.62	...		23	28.1	M
26	...		18	24.74	...		23	26.1	M
27	...		18	24.62	...		23	25.6	M
Nov. 24	...		18	24.45	...		23	23.3	M
25	...		18	24.66	...		23	26.2	M
Dec. 23	...		18	24.58	...		23	26.8	R
119 <i>Anon.</i>									
Nov. 26	7.0	3	19	6.04	5	134	39	23.9	M
Dec. 12	7.0		19	5.80	...		39	23.0	R
17	7.0		19	5.95	4		39	22.6	R
22	7.0		19	5.95	...		39	23.9	R
120 <i>Anon.</i>									
Dec. 7	8.0	3	20	19.40	...	149	21	25.7	R
15	8.0		20	19.35	...		21	25.3	R
121 <i>Anon.</i>									
Dec. 14	8.0	3	20	56.81	...	149	24	52.3	R
122 <i>Anon.</i>									
Jan. 3	...	3	21	22.25	4	71	55	57.2	M
4	10.0		21	22.10	6		55	55.8	M
5	10.0		21	22.13	5		55	57.5	M
123 <i>Stone 1430.</i>									
Dec. 26	7.0	3	21	23.28	...	126	22	35.1	R
124 <i>Anon.</i>									
Dec. 24	7.5	3	27	10.44	...	126	6	36.1	R
125 <i>18 Eridani ε</i>									
Jan. 18	...	3	27	19.45	...	99	51	45.8	M
21	...		27	19.48	...		51	43.1	M
22	...		27	19.43	...		51	45.0	M
24	...		27	19.40	...		51	44.9	M
25	...		27	19.46	...		51	46.0	M
26	...		27	19.32	...		51	44.4	M
27	...		27	19.53	...		51	43.2	M
28	...		27	19.56	...		51	44.3	M
29	...		27	19.40	...		51	45.6	M
31	...		27	19.44	...		51	43.0	M
Nov. 30	...		27	19.35	...		51	46.8	M
Dec. 12	...		27	19.33	...		51	43.8	R
15	...		27	19.41	...		51	43.1	R
126 <i>R. P. L. 34.</i>									
Jan. 3	...	3	27	40.42	3	3	43	53.8	M
15	...		27	40.36	3		43	52.6	M
<i>R. P. L. 34-s.p.</i>									
June 7	...	3	27	41.42	3	3	43	51.2	R
16	...		27	40.40	3		43	52.6	R
22	...		27	39.94	3		43	54.1	R
July 19	...		27	40.33	3		43	53.5	R
127 <i>Anon.</i>									
Dec. 7	8.0	3	29	4.12	...	148	30	9.6	R
17	8.0		29	4.12	...		30	9.0	R
23	8.0		29	4.21	...		30	8.4	R
128 <i>Anon.</i>									
Dec. 22	7.0	3	31	54.26	...	125	11	0.0	R
129 <i>Anon.</i>									
Dec. 24	8.0	3	34	54.03	...	124	22	22.7	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
146 <i>34 Eridani γ^1</i>										153 <i>Anon.</i>									
Jan. 18	...	3	52	28.69	...	103	50	52.6	R	Dec. 12	7.0	4	0	36.23	...	131	36	25.7	R
Feb. 1	...	52	28.55	...	...	50	52.3	...	R	16	7.0	0	36.37	...	...	36	27.3	...	R
Dec. 23	...	53	28.54	...	...	50	52.6	...	R	23	7.0	0	36.42	...	...	36	23.2	...	R
147 <i>Stone 1686.</i>										154 <i>Stone 1757.</i>									
Dec. 7	7.5	3	52	38.46	...	142	35	36.7	R	Dec. 26	6.0	4	3	17.84	...	127	22	47.2	R
12	7.0	52	38.38	...	...	35	35.6	...	R										
14	7.0	52	38.34	...	...	35	34.9	...	R										
15	7.0	52	38.35	...	...	35	35.3	...	R										
16	7.0	52	38.42	...	...	35	35.2	...	R										
148 <i>Anon.</i>										155 <i>Anon.</i>									
Dec. 26	8.0	3	53	23.48	5	124	51	14.0	R	Dec. 22	8.0	4	5	7.03	...	126	58	0.8	R
149 <i>Stone 1710.</i>										156 <i>38 Eridani α^1</i>									
Dec. 22	5.5	3	57	29.15	...	124	48	50.5	R	Jan. 28	...	4	6	3.35	...	97	8	55.4	M
150 <i>37 Tauri A^1.</i>										29	...	6	3.41	...	...	8	57.2	...	M
Jan. 3	...	3	57	39.53	...	68	14	38.9	M	31	...	6	3.39	...	...	8	55.6	...	M
5	...	57	39.55	...	...	14	42.6	...	M	Feb. 5	...	6	3.40	...	...	8	54.7	...	R
13	...	57	39.58	...	...	14	40.3	...	R	Dec. 17	...	6	3.39	...	...	8	55.3	...	R
24	...	57	39.56	...	...	14	39.6	...	M	157 <i>δ Horologii.</i>									
25	...	57	39.59	...	...	14	42.6	...	M	Dec. 12	6.0	4	6	49.91	...	132	18	18.4	R
27	...	57	39.54	...	...	14	41.1	...	M	158 <i>Anon.</i>									
28	...	57	39.62	...	...	14	42.0	...	M	Dec. 16	8.0	4	7	29.16	...	150	36	48.1	R
29	...	57	39.63	...	...	14	41.8	...	M	159 <i>Anon.</i>									
31	...	57	39.63	...	...	14	39.3	...	M	Dec. 15	9.0	4	10	8.87	...	128	37	4.3	R
Feb. 2	...	57	39.63	...	...	14	39.0	...	R	26	9.0	10	8.96	...	...	37	2.3	...	R
Dec. 7	...	57	39.56	...	...	14	41.8	...	R	160 <i>54 Tauri γ</i>									
14	...	57	39.58	...	...	14	38.2	...	R	Jan. 18	...	4	13	1.31	...	74	39	40.9	M
151 <i>Anon.</i>										26	...	13	1.35	...	...	39	40.0	...	M
Dec. 15	8.0	3	59	15.42	...	128	55	52.0	R	Feb. 2	...	13	1.26	...	...	39	39.4	...	R
17	8.0	59	15.39	...	...	55	50.8	...	R	4	...	13	1.24	...	...	39	38.6	...	R
152 <i>R. P. L. 35.</i>										9	...	13	1.83	...	...	39	38.4	...	R
Jan. 8	...	3	59	39.81	3	4	45	35.9	M	161 <i>Anon.</i>									
26	...	59	39.86	3	...	45	37.6	...	M	Dec. 12	8.0	4	16	10.06	...	125	22	13.7	R
Feb. 1	...	59	40.82	3	...	45	37.5	...	R	14	8.0	16	10.05	5	...	22	13.5	...	R
9	...	59	39.16	3	...	45	33.7	...	R	15	8.0	16	10.18	22	13.9	...	R
										16	8.0	16	10.16	22	12.9	...	R

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162 <i>74 Tauri ε</i>						171 <i>Anon.</i>					
Feb. 1	...	4 21 40.07	...	71 5 5.2	R	Dec. 16	7.0	4 48 4.10	...	126 25 20.8	R
3	...	21 40.13	...	5 8.1	R	17	7.0	48 4.06	...	25 19.7	R
5	...	21 40.01	...	5 5.3	R	22	7.0	43 4.08	...	25 20.3	R
163 <i>Stone 1895.</i>						172 <i>ι Pictoris.</i>					
Dec. 12	8.0	4 22 13.05	...	128 51 20.2	R	Jan. 8	...	4 48 16.05	...	143 39 40.1	M
15	8.5	22 18.11	...	51 20.0	R	13	...	48 16.05	...	39 52.3	R
16	7.7	22 18.18	...	51 19.1	R	15	...	48 16.21	6	39 53.1	M
164 <i>Anon.</i>						173 <i>3 Aurigæ ι</i>					
Dec. 22	8.0	4 25 6.01	5	125 32 55.2	R	Feb. 7	...	4 49 14.55	...	57 1 24.9	R
						Dec. 22	...	49 14.56	...	1 26.5	R
165 <i>Stone 1961.</i>						174 <i>R Eridani, Var.</i>					
Dec. 26	8.0	4 28 52.43	...	128 32 8.6	R	Jan. 3	6.5	4 49 58.00	...	106 36 41.8	M
						4	6.0	49 57.96	...	36 41.8	M
						5	...	49 58.15	...	36 41.6	M
166 <i>Anon.</i>						175 <i>Anon.</i>					
Dec. 16	8.0	4 29 8.37	...	126 35 33.9	R	Dec. 17	9.5	4 52 34.05	...	131 43 44.4	R
167 <i>Anon.</i>						176 <i>Anon.</i>					
Dec. 26	8.5	4 34 25.71	...	130 49 36.1	R	Dec. 26	7.0	4 54 18.10	...	131 43 52.6	R
168 <i>Anon.</i>						177 <i>S Eridani, Var.</i>					
Dec. 22	7.5	4 35 32.38	...	125 53 43.0	R	Jan. 4	...	4 54 23.96	...	102 42 51.2	M
169 <i>Lacaille 1566.</i>						5	...	54 24.14	...	42 51.4	M
Dec. 16	6.0	4 36 3.15	...	143 26 20.1	R	6	...	54 24.08	4	42 51.2	M
170 <i>57 Eridani μ</i>						8	...	54 23.39	5	42 47.5	M
Jan. 20	...	4 39 33.11	...	93 28 26.6	M	13	...	54 23.36	...	42 50.8	R
26	...	39 33.31	...	28 24.8	M	15	...	54 24.02	5	42 50.9	M
Feb. 1	...	39 33.20	...	28 23.8	R	20	...	54 23.39	...	42 51.4	M
3	...	39 33.29	...	28 25.4	R	22	...	54 24.12	...	42 52.4	M
4	...	39 33.21	...	28 24.8	R	178 <i>11 Camelopardi.</i>					
8	...	39 33.09	...	28 24.6	R	Jan. 19	...	4 55 48.05	...	31 11 47.3	M
						21	...	55 47.96	...	11 45.1	M

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179 <i>Anon.</i>						187 <i>R. P. L. 40.</i>					
Dec. 17	7.0	4 59 8.51	...	131 46 39.2	R	Feb. 4	...	5 23 59.15	3	4 52 3.9	R
22	7.0	59 8.40	...	46 38.6	R	<i>R. P. L. 40.—s.p.</i>					
180 <i>2 Leporis ε</i>						July 26	...	5 23 58.95	3	4 52 5.3	R
Feb. 2	...	5 0 25.33	...	112 31 55.9	R	188 <i>34 Orionis δ, Var. 1.</i>					
7	...	0 25.46	...	31 54.4	R	Feb. 8	...	5 25 55.72	...	90 23 17.9	R
8	...	0 25.35	...	31 54.8	R	14	...	25 55.60	...	23 18.0	R
10	...	0 25.42	...	31 56.1	R	189 <i>11 Leporis α</i>					
181 <i>Anon.</i>						Feb. 5	...	5 27 28.91	...	107 54 29.4	R
Dec. 22	8.0	5 5 30.57	...	129 21 45.2	R	7	...	27 28.96	...	54 29.2	R
182 <i>19 Orionis β, Rigel.</i>						15	...	27 28.97	...	54 30.4	R
Feb. 11	...	5 8 49.19	...	98 20 24.7	R	Mar. 1	...	27 28.89	...	54 32.3	M
183 <i>Anon.</i>						2	...	27 28.98	...	54 31.6	M
Dec. 22	8.0	5 12 45.63	...	128 48 29.0	R	3	...	27 28.98	...	54 32.6	M
184 <i>27 Orionis p.</i>						4	...	27 29.01	...	54 32.6	M
Jan. 15	...	5 18 25.93	...	91 0 25.2	M	190 <i>Anon.</i>					
19	...	18 25.98	...	0 26.3	M	Jan. 8	8.5	5 29 0.08	...	96 5 13.1	M
20	...	18 25.98	...	0 25.4	M	29	8.5	29 0.16	...	5 17.6	M
22	...	18 25.97	...	0 25.9	M	31	8.5	29 0.19	...	5 15.2	M
24	...	18 25.94	...	0 25.3	M	Feb. 1	9.0	29 0.00	...	5 15.2	R
185 <i>112 Tauri β</i>						2	9.0	29 0.10	...	5 14.1	R
Jan. 12	...	5 18 46.17	...	61 29 41.5	M	191 <i>T Orionis, Var.</i>					
Feb. 3	...	18 46.11	...	29 39.1	R	Jan. 13	...	5 29 11.98	...	96 5 22.5	R
4	...	18 46.11	...	29 39.3	R	15	...	29 12.14	...	5 25.1	M
10	...	18 46.10	...	29 40.4	R	19	...	29 12.08	...	5 24.5	M
12	...	18 46.17	...	29 40.9	R	20	...	29 12.08	6	5 23.5	M
Mar. 1	...	18 46.27	...	29 42.7	M	22	...	29 12.08	...	5 23.8	M
2	...	18 46.21	...	29 40.4	M	24	...	29 12.16	...	5 24.2	M
186 <i>31 Orionis, Var.</i>						25	...	29 12.13	...	5 25.3	M
Jan. 3	...	5 23 41.45	...	91 11 16.6	M	26	...	29 11.98	...	5 22.6	M
4	...	23 41.32	...	11 14.8	M	27	...	29 12.11	...	5 24.0	M
5	...	23 41.50	...	11 15.1	M	28	...	29 12.16	...	5 25.3	M
6	...	23 41.33	...	11 15.1	M	192 <i>46 Orionis ε</i>					
						Feb. 9	...	5 30 10.54	...	91 16 45.8	R

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		h. m. s.		° ' "				h. m. s.		° ' "	
193 123 Tauri ζ						197 β Columbae.					
Mar. 5	...	5 30 31.95	...	68 55 53.4	M	Feb. 28	...	5 46 45.80	...	125 48 50.6	R
7	...	30 32.10	...	55 53.8	M	Mar. 1	...	46 45.87	...	48 50.8	M
8	...	30 32.13	...	55 53.7	M	2	...	46 45.88	...	48 48.8	M
9	...	30 32.00	...	55 53.4	M	4	...	46 46.01	...	48 51.0	M
10	...	30 31.82	...	55 54.7	M						
11	...	30 31.96	...	55 53.9	M						
14	...	30 31.94	...	55 52.4	M						
194 50 Orionis ζ						198 58 Orionis α, Var., Betelgeux.					
Feb. 28	...	5 34 45.28	...	92 0 24.5	R	Jan. 19	...	5 48 43.66	...	82 37 1.4	M
Mar. 1	...	34 45.29	...	0 27.5	M	22	...	48 43.75	...	37 2.1	M
2	...	34 45.23	...	0 25.8	M	Feb. 18	...	48 43.84	...	36 59.8	R
3	...	34 45.45	...	0 26.1	M	21	...	48 43.82	...	36 59.6	R
4	...	34 45.41	...	0 28.4	M	Mar. 9	...	48 43.79	...	37 1.9	M
						10	...	48 43.69	...	37 0.6	M
						11	...	48 43.65	...	37 1.9	M
195 α Columbae.						199 34 Aurigae β					
Mar. 5	...	5 35 20.41	...	124 8 18.9	M	Feb. 28	...	5 50 47.89	...	45 3 59.8	R
7	...	35 20.53	...	8 21.0	M	Mar. 1	...	50 47.91	5	3 59.7	M
8	...	35 20.57	...	8 19.1	M	2	...	50 47.77	...	3 59.3	M
9	...	35 20.40	...	8 19.7	M	3	...	50 47.94	...	3 58.9	M
						4	...	50 47.96	...	3 58.2	M
196 53 Orionis κ						200 37 Aurigae θ					
Jan. 4	...	5 42 6.77	...	99 42 48.5	M	Feb. 26	...	5 51 36.36	...	52 47 47.0	R
8	...	42 6.89	...	42 47.0	M	Mar. 5	...	51 36.32	...	47 46.7	M
15	...	42 6.86	...	42 49.6	M	7	...	51 36.29	...	47 47.8	M
19	...	42 6.73	...	42 48.1	M	8	...	51 36.41	...	47 46.8	M
20	...	42 6.77	...	42 49.8	M						
24	...	42 6.75	...	42 48.7	M						
25	...	42 6.76	...	42 50.5	M						
26	...	42 6.62	...	42 47.8	M						
27	...	42 6.72	...	42 49.7	M						
28	...	42 6.71	...	42 49.5	M						
29	...	42 6.58	...	42 51.0	M						
31	...	42 6.75	...	42 48.7	M						
Feb. 1	...	42 6.73	...	42 46.1	R						
5	...	42 6.72	...	42 47.0	R						
11	...	42 6.76	...	42 46.5	R						
13	...	42 6.78	...	42 46.5	R						
14	...	42 6.71	...	42 46.4	R						
Dec. 26	...	42 6.71	...	42 48.8	R						
						201 W. B. N. V. 1681.					
						Feb. 1	9.4	5 52 52.58	...	64 48 40.9	R
						3	9.3	52 52.67	...	48 40.5	R
						5	9.5	52 52.38	...	48 41.6	R
						8	9.5	52 52.57	4	48 41.7	R
						9	9.2	52 52.42	...	48 41.7	R
						202 Anon.					
						Jan. 31	9.3	5 52 53.74	...	65 3 34.4	M
						Feb. 2	9.3	52 53.71	...	3 36.5	R
						4	9.4	52 53.06	...	3 36.5	R
						7	9.3	52 53.04	...	3 35.5	R
						10	9.5	52 53.85	...	3 36.3	R

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881.			No. of Wires.	Mean Polar Distance 1881.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881.			No. of Wires.	Mean Polar Distance 1881.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
203 <i>Anon.</i>										208 <i>Anon.</i>									
Feb. 10	9.4	5	59	17.31	...	136	46	10.4	R	Jan. 31	9.5	6	8	51.26	...	65	45	9.9	M
11	9.6		59	17.34	...		46	16.9	R	Feb. 2	9.5		8	51.20	...		45	13.2	R
14	9.5		59	17.31	...		46	15.7	R	4	9.4		8	51.12	...		45	12.9	R
21	9.5		59	17.29	...		46	15.7	R	7	9.5		8	51.28	...		45	12.0	R
22	9.5		59	17.37	...		46	17.2	R	10	9.4		8	51.28	...		45	13.2	R
204 <i>R. P. L. 43.</i>										209 <i>Lalande 12053.</i>									
Feb. 15	...	5	59	35.03	3	3	14	12.4	R	Mar. 5	9.0	6	13	25.00	...	68	51	34.7	M
25	...		59	34.97	3		14	12.0	R										
205 <i>67 Orionis ν</i>										210 <i>Anon.</i>									
Feb. 2	...	6	0	46.66	...	75	13	3.7	R	Feb. 11	9.5	6	14	0.25	...	150	36	31.6	R
3	...		0	46.57	...		13	3.9	R	12	9.5		14	0.24	...		36	32.1	R
7	...		0	46.61	...		13	3.7	R	14	9.6		14	0.31	...		36	32.0	R
9	...		0	46.64	...		13	5.2	R	19	9.5		14	0.24	...		36	33.6	R
12	...		0	46.64	...		13	6.1	R	24	9.5		14	0.14	...		36	31.4	R
16	...		0	46.69	...		13	4.8	R										
23	...		0	46.69	...		13	6.0	R										
26	...		0	46.68	...		13	4.8	R										
28	...		0	46.74	...		13	5.0	R										
Mar. 1	...		0	46.65	...		13	6.0	M										
206 <i>7 Geminorum η</i>										211 <i>Anon.</i>									
Feb. 14	...	6	7	41.67	...	67	27	36.4	R	Feb. 17	7.5	6	14	25.61	...	144	34	22.6	R
15	...		7	41.63	...		27	34.3	R	22	7.2		14	25.68	...		34	20.7	R
17	...		7	41.64	...		27	35.4	R	26	7.5		14	25.65	...		34	20.1	R
19	...		7	41.64	...		27	36.1	R	28	7.6		14	25.59	...		34	20.5	R
24	...		7	41.68	...		27	35.9	R	Mar. 1	7.7		14	25.52	...		34	22.3	M
25	...		7	41.67	...		27	35.6	R										
Mar. 2	...		7	41.57	...		27	34.8	M										
3	...		7	41.61	...		27	36.2	M										
4	...		7	41.66	...		27	38.9	M										
207 <i>Anon.</i>										212 <i>Anon.</i>									
Jan. 29	9.3	6	8	37.10	...	65	50	13.3	M	Feb. 18	8.5	6	15	10.77	...	138	39	2.2	R
Feb. 1	9.2		8	36.98	...		50	13.4	R	25	8.6		15	10.67	4		39	2.1	R
3	9.4		8	37.07	...		50	13.1	R	Mar. 2	8.6		15	10.72	...		39	3.1	M
5	9.5		8	36.97	...		50	12.8	R	3	8.6		15	10.85	...		39	5.1	M
9	9.5		8	37.10	...		50	13.6	R	4	8.6		15	10.80	...		39	4.3	M
208 <i>Anon.</i>										213 <i>1 Canis Majoris ζ</i>									
Jan. 31	9.5	6	8	51.26	...	65	45	9.9	M	Mar. 7	...	6	15	44.76	...	120	0	43.4	M
Feb. 2	9.5		8	51.20	...		45	13.2	R	9	...		15	44.74	...		0	42.7	M
4	9.4		8	51.12	...		45	12.9	R	12	...		15	44.77	...		0	41.7	M
7	9.5		8	51.28	...		45	12.0	R	16	...		15	44.82	...		0	43.7	M
10	9.4		8	51.28	...		45	13.2	R	17	...		15	44.71	...		0	43.9	M

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Number and Date.	Magnitude.	Mean Right Ascension 1881.	No. of Wires.	Mean Polar Distance 1881.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881.	No. of Wires.	Mean Polar Distance 1881.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
214 13 Geminorum μ						220 Anon.					
Feb. 1	...	6 15 45.61	...	67 25 35.6	R	Feb. 9	8.0	6 24 53.00	...	148 8 53.4	R
3	...	15 45.60	...	25 35.4	R	10	8.2	24 52.97	...	8 53.9	R
10	...	15 45.59	...	25 36.2	R	11	8.2	24 52.97	...	8 55.2	R
16	...	15 45.68	...	25 33.8	R	12	8.2	24 52.97	...	8 55.6	R
215 Taylor 2466.						19	8.2	24 52.87	...	8 52.6	R
Feb. 23	6.5	6 16 58.12	...	138 40 44.5	R	221 Lacaille 2348.					
Mar. 8	6.5	16 58.24	...	40 45.2	M	Feb. 18	6.6	6 26 41.59	...	152 4 20.0	R
11	...	16 58.11	...	40 44.9	M	28	6.8	26 41.40	...	4 21.0	R
14	...	16 58.11	...	40 43.2	M	Mar. 2	6.8	26 41.48	...	4 19.6	M
15	6.5	16 58.08	...	40 44.1	M	3	6.8	26 41.50	...	4 20.5	M
216 2 Canis Majoris β						4	6.8	26 41.47	...	4 21.6	M
Mar. 10	...	6 17 27.49	...	107 53 53.6	M	222 Anon.					
18	...	17 27.48	...	53 52.9	M	Feb. 14	7.0	6 29 40.97	...	138 27 1.2	R
19	...	17 27.54	...	53 53.0	M	16	7.0	29 40.99	...	26 59.3	R
21	...	17 27.57	...	53 52.8	M	17	7.0	29 40.97	...	26 58.5	R
22	...	17 27.62	...	53 52.5	M	21	9.0	29 50.16	...	26 59.2	R
217 α Argus, Canopus.						22	8.0	29 49.94	...	26 58.7	R
Feb. 28	...	6 21 18.51	...	142 37 52.4	R	223 24 Geminorum γ					
Mar. 1	...	21 18.64	...	37 54.3	M	Feb. 12	...	6 30 50.20	...	73 30 2.8	R
5	...	21 18.64	...	37 56.2	M	19	...	30 50.19	...	30 2.4	R
12	...	21 18.57	...	37 52.8	M	25	...	30 50.19	...	30 2.7	R
16	...	21 18.64	...	37 53.4	M	Mar. 7	...	30 50.15	...	30 4.7	M
17	...	21 18.65	...	37 54.8	M	8	...	30 50.21	...	30 1.7	M
18	...	21 18.51	...	37 54.8	M	9	...	30 50.17	...	30 2.9	M
19	...	21 18.59	...	37 52.8	M	10	...	30 50.21	...	30 2.8	M
21	...	21 18.52	...	37 53.8	M	224 ν Argus.					
218 λ Canis Majoris.						Mar. 1	...	6 34 7.30	...	133 5 33.4	M
Mar. 7	...	6 23 45.68	...	122 30 23.8	M	2	...	34 7.35	...	5 32.9	M
8	...	23 45.51	...	30 23.1	M	3	...	34 7.34	...	5 33.7	M
10	...	23 45.59	...	30 23.0	M	4	...	34 7.20	...	5 35.5	M
219 Taylor 2524.						5	...	34 7.26	...	5 34.7	M
Mar. 9	...	6 24 0.02	...	131 3 37.8	M						
11	...	24 0.08	...	3 37.4	M						
14	...	23 59.91	...	3 37.5	M						
15	...	24 0.09	...	3 36.4	M						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
225 <i>Taylor 2629.</i>										230 <i>9 Canis Majoris α, Sirius.</i>									
Feb. 15	7.0	6	34	36.92	...	139	25	29.6	R	Mar. 3	...	6	39	54.42	...	106	33	16.5	M
18	7.0		34	37.04	...		25	26.4	R	4	...		39	54.09	...		33	16.6	M
21	7.0		34	36.92	...		25	26.3	R	16	...		39	54.20	...		33	16.8	M
23	7.0		34	36.89	...		25	27.7	R	18	...		39	54.07	...		33	16.7	M
24	7.0		34	36.99	...		25	26.6	R	19	...		39	54.17	...		33	16.8	M
										23	...		39	54.22	...		33	15.9	M
226 <i>Anon.</i>										231 <i>10 Canis Majoris.</i>									
Feb. 9	8.5	6	35	34.46	...	148	4	40.2	R	Feb. 26	...	6	39	56.83	...	120	56	57.7	R
10	8.6		35	34.39	...		4	42.4	R										
11	8.5		35	34.48	...		4	43.5	R										
12	8.5		35	34.54	...		4	44.1	R										
16	9.0		35	34.43	...		4	41.1	R										
227 <i>Lalande 12,863.</i>										232 <i>Anon.</i>									
Mar. 21	7.0	6	35	36.02	...	83	32	34.6	M	Feb. 11	9.0	6	42	56.26	...	144	1	33.1	R
22	7.0		35	36.07	...		32	35.3	M	12	9.0		42	56.31	...		1	32.9	R
24	...		35	35.98	...		32	33.2	M	16	9.5		42	56.31	...		1	35.1	R
25	...		35	36.07	...		32	34.0	M	19	9.2		42	56.40	...		1	34.4	R
26	...		35	36.00	...		32	34.8	M	21	9.5		42	56.22	...		1	33.8	R
228 <i>27 Geminorum ε</i>										233 <i>51 Cephei (Ilv.)—s.p.</i>									
Mar. 7	...	6	36	36.60	...	64	45	10.0	M	Aug. 23	...	6	44	17.01	3	2	46	21.2	M
8	...		36	36.54	...		45	11.0	M	29	...		44	16.80	3		46	23.1	M
9	...		36	36.53	...		45	8.5	M										
10	...		36	36.72	...		45	10.3	M										
11	...		36	36.61	...		45	10.8	M										
14	...		36	36.51	...		45	7.3	M										
15	...		36	36.50	...		45	11.8	M										
17	...		36	36.53	...		45	11.2	M										
229 <i>31 Geminorum ξ</i>										234 <i>14 Canis Majoris θ</i>									
Feb. 4	...	6	38	36.65	...	76	58	37.8	R	Jan. 28	...	6	48	39.53	...	101	53	26.0	M
5	...		38	36.57	...		58	36.6	R	29	...		48	39.75	...		53	28.0	M
17	...		38	36.54	...		58	37.4	R	31	...		48	39.55	...		53	26.2	M
22	...		38	36.62	...		58	37.9	R	Feb. 7	...		48	39.65	...		53	23.3	R
28	...		38	36.66	...		58	37.2	R	9	...		48	39.45	...		53	24.3	R
Mar. 12	...		38	36.60	...		58	39.4	M	10	...		48	39.06	...		53	24.0	R
										11	...		48	39.67	...		53	24.9	R
										15	...		48	39.65	...		53	24.4	R
										17	...		48	39.69	...		53	23.5	R
										22	...		48	39.72	...		53	25.7	R
										24	...		48	39.60	...		53	23.6	R
										26	...		48	39.60	...		53	24.2	R
										Mar. 5	...		48	39.69	...		53	24.6	M
										8	...		48	39.79	...		53	27.1	M
										9	...		48	39.69	...		53	26.0	M
										10	...		48	39.79	...		53	26.1	M
										11	...		48	39.76	...		53	26.4	M

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Mar. 15	...	6 48 39.71	...	101 53 26.5	M	Feb. 11	...	6 58 22.42	...	105 27 29.9	R
16	...	48 39.73	...	53 26.5	M	18	...	58 22.56	...	27 29.0	R
17	...	48 39.69	...	53 26.2	M	24	...	58 22.59	...	27 28.7	R
18	...	48 39.68	...	53 25.1	M	Mar. 3	...	58 22.38	...	27 32.8	M
21	...	48 39.67	...	53 25.2	M	4	...	58 22.56	...	27 33.5	M
22	...	48 39.72	...	53 24.9	M	5	...	58 22.50	...	27 30.9	M
23	...	48 39.78	...	53 26.3	M	8	...	58 22.53	...	27 32.4	M
25	...	48 39.70	...	53 24.5	M						
26	...	48 39.61	...	53 25.3	M						
235 <i>Taylor 2767.</i>						240 <i>Lalande 13707.</i>					
Feb. 14	6.0	6 50 15.36	...	143 56 35.4	R	Feb. 26	8.2	6 59 7.51	...	67 8 4.0	R
16	8.0	50 15.41	...	56 32.7	R	Mar. 9	8.2	59 7.47	...	8 3.0	M
18	6.5	50 15.46	...	56 33.2	R	10	...	59 7.47	...	8 3.2	M
19	6.5	50 15.43	...	56 32.7	R						
21	6.6	50 15.49	...	56 34.7	R	241 <i>Anon.</i>					
236 <i>21 Canis Majoris ε</i>						Feb. 12	8.2	7 1 59.72	...	138 53 35.0	R
Feb. 4	...	6 53 57.06	...	118 48 37.4	R	14	8.2	1 59.56	...	53 32.7	R
23	...	53 56.94	...	48 38.4	R	16	8.5	1 59.58	...	53 35.1	R
Mar. 12	...	53 57.00	...	48 39.0	M	23	8.5	1 59.58	...	53 34.1	R
15	...	53 56.98	...	48 41.3	M	Mar. 1	8.5	1 59.58	...	53 35.7	M
16	...	53 57.01	...	48 40.5	M						
17	...	53 56.90	...	48 41.3	M	242 <i>25 Canis Majoris δ</i>					
237 <i>43 Geminorum ζ², Var. 1.</i>						Mar. 15	...	7 3 33.12	...	116 12 20.8	M
Mar. 21	...	6 57 3.00	...	69 15 22.8	M	16	...	3 33.19	...	12 20.7	M
22	...	57 3.03	...	15 22.5	M	17	...	3 33.11	...	12 22.0	M
23	...	57 3.09	...	15 23.6	M	18	...	3 33.15	...	12 20.0	M
238 <i>Lacaille 2606.</i>						19	...	3 32.91	...	12 20.6	M
Feb. 15	8.0	6 58 0.23	...	146 44 21.9	R						
17	8.0	58 0.21	...	44 19.3	R	243 <i>Radcliffe 1887—s.p.</i>					
19	8.0	58 0.35	...	44 18.7	R	Sep. 3	...	7 5 56.38	5	7 21 51.6	M
21	8.0	58 0.35	...	44 18.6	R	16	...	5 57.12	7	21 51.0	M
22	8.0	58 0.21	...	44 20.0	R						
239 <i>23 Canis Majoris γ</i>						244 <i>Lacaille 2702.</i>					
Feb. 2	...	6 58 22.59	...	105 27 32.3	R	Feb. 15	7.0	7 9 35.44	...	145 57 24.0	R
9	...	58 22.64	...	27 29.9	R	17	7.0	9 35.44	...	57 20.8	R
10	...	58 22.70	...	27 29.5	R	23	7.0	9 35.39	...	57 21.6	R
						25	7.0	9 35.31	...	57 19.8	R
						Mar. 1	7.0	9 35.34	...	57 22.2	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
245 <i>L² Puppis, Var.</i>									
Jan. 28	...	7	9	54.34	...	134	26	50.0	M
20	...		9	54.34	...		26	50.2	M
31	...		9	54.31	...		26	48.4	M
Feb. 1	...		9	54.38	...		26	47.2	R
2	...		9	54.38	...		26	47.7	R
246 <i>54 Geminorum λ</i>									
Feb. 28	...	7	11	15.25	...	73	14	46.6	R
Mar. 2	...		11	15.18	...		14	45.7	M
4	...		11	15.19	...		14	47.7	M
247 <i>π Argus.</i>									
Mar. 5	...	7	12	56.40	...	126	53	8.0	M
7	...		12	56.40	...		53	8.3	M
8	...		12	56.41	...		53	7.4	M
9	...		12	56.51	...		53	6.7	M
11	...		12	56.54	...		53	6.3	M
248 <i>55 Geminorum δ</i>									
Feb. 16	...	7	13	1.07	...	67	47	58.7	R
18	...		13	0.86	...		47	57.6	R
249 <i>Anon.</i>									
Feb. 9	9.0	7	13	16.48	...	144	16	37.0	R
10	9.2		13	16.42	...		16	36.4	R
11	9.2		13	16.47	...		16	37.0	R
12	9.3		13	16.52	...		16	37.5	R
Mar. 3	9.3		13	16.47	...		16	39.8	M
250 <i>Taylor 2975.</i>									
Feb. 26	5.6	7	14	4.57	...	126	31	3.9	R
Mar. 16	5.5		14	4.07	...		31	6.3	M
17	5.5		14	4.44	...		31	7.9	M
18	5.5		14	4.52	...		31	6.0	M
251 <i>δ Volantis.</i>									
Mar. 15	...	7	16	53.25	...	157	44	24.3	M
22	...		16	53.12	...		44	23.7	M
23	...		16	53.26	...		44	24.6	M
24	...		16	53.37	...		44	19.6	M
252 <i>Taylor 3029.</i>									
Feb. 26	5.6	7	18	1.17	...	146	4	20.6	R
253 <i>31 Canis Majoris η</i>									
Feb. 28	...	7	19	23.26	...	119	4	18.1	R
Mar. 3	...		19	23.26	5		4	20.3	M
5	...		19	23.33	...		4	20.7	M
8	...		19	23.40	...		4	21.7	M
10	...		19	23.41	...		4	20.6	M
254 <i>Anon.</i>									
Feb. 10	9.2	7	20	11.93	...	145	20	17.1	R
11	9.2		20	11.90	...		20	18.9	R
12	9.3		20	11.97	...		20	17.6	R
24	9.2		20	11.81	...		20	18.4	R
Mar. 2	9.2		20	12.09	...		20	20.1	M
255 <i>Taylor 3051.</i>									
Feb. 17	7.0	7	20	29.06	...	145	20	57.3	R
23	7.0		20	28.94	...		20	57.6	R
Mar. 4	7.0		20	28.85	...		21	0.1	M
7	7.5		20	28.84	...		20	59.2	M
9	...		20	28.91	...		20	59.3	M
256 <i>3 Canis Majoris β</i>									
Feb. 14	...	7	20	41.84	...	81	28	17.3	R
16	...		20	41.91	...		28	17.4	R
19	...		20	41.82	...		28	18.5	R
21	...		20	41.82	...		28	18.2	R
25	...		20	41.85	...		28	17.3	R
Mar. 14	...		20	41.93	...		28	18.0	M
16	...		20	41.83	...		28	18.3	M
17	...		20	41.88	...		28	20.5	M

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Mar. 18	...	7 20 41.91	...	31 23 19.1	M	261 <i>Taylor 3135.</i>					
19	...	20 41.74	...	28 19.2	M	Feb. 14	8.0	7 30 23.37	...	144 54 20.4	R
21	...	20 41.83	...	28 18.5	M	17	8.3	30 23.36	...	54 20.4	R
25	...	20 41.82	...	28 17.0	M	19	8.2	30 23.49	...	54 21.0	R
257 <i>U Monocerotis, Var.</i>						28	8.0	30 23.39	...	54 21.4	R
Jan. 28	...	7 25 7.06	...	99 31 45.6	M	Mar. 3	8.0	30 23.39	...	54 20.6	M
29	...	25 6.97	4	31 44.7	M	262 <i>10 Canis Minoris a, Procyon.</i>					
31	...	25 6.88	...	31 44.5	M	Feb. 21	...	7 33 4.85	...	84 28 16.1	R
Feb. 1	8.1	25 6.84	...	31 43.6	R	Mar. 24	...	33 4.35	...	28 14.4	M
2	8.0	25 7.15	...	31 44.4	R	263 <i>Taylor 3177.</i>					
3	8.0	25 6.89	...	31 43.9	R	Mar. 4	6.3	7 34 56.39	...	138 19 50.3	M
4	7.8	25 6.92	...	31 44.0	R	5	6.3	34 56.46	...	19 40.3	M
5	7.6	25 6.85	...	31 44.0	R	7	6.3	34 56.50	...	19 49.6	M
7	8.2	25 6.90	...	31 42.1	R	8	6.3	34 56.40	...	19 49.8	M
9	8.2	25 6.78	...	31 43.0	R	10	...	34 56.53	...	19 50.1	M
258 <i>66 Geminorum a², Castor.</i>						264 <i>Anon.</i>					
Feb. 22	...	7 27 0.32	...	57 51 9.2	R	Feb. 18	8.5	7 36 3.44	...	137 16 26.5	R
Mar. 5	...	27 0.42	...	51 6.6	M	26	8.6	36 3.40	...	16 26.7	R
7	...	27 0.38	...	51 7.1	M	28	8.6	36 3.37	...	16 26.3	R
11	...	27 0.37	...	51 8.6	M	Mar. 1	8.6	36 3.50	...	16 27.3	M
12	...	27 0.37	...	51 7.1	M	3	8.6	36 3.52	...	16 28.2	M
15	...	27 0.31	...	51 8.0	M	265 <i>R Puppis, Var.</i>					
18	...	27 0.49	...	51 5.3	M	Jan. 31	...	7 36 15.56	...	121 23 6.5	M
19	...	27 0.38	...	51 6.4	M	Feb. 1	8.0	36 15.51	...	23 6.8	R
22	...	27 0.31	...	51 6.6	M	2	8.2	36 15.58	...	23 7.5	R
259 <i>Anon.</i>						3	8.2	36 15.54	...	23 6.4	R
Feb. 18	9.0	7 27 57.71	...	149 51 33.5	R	4	8.2	36 15.51	...	23 6.4	R
25	9.0	27 57.64	...	51 33.0	R	5	8.3	36 15.54	...	23 6.4	R
26	9.2	27 57.57	...	51 33.6	R	7	8.2	36 15.60	...	23 4.5	R
28	9.0	27 57.53	...	51 33.6	R	9	8.2	36 15.60	...	23 5.0	R
Mar. 2	9.0	27 57.77	...	51 34.6	M	10	8.2	36 15.54	...	23 4.8	R
260 <i>69 Geminorum v</i>						11	8.2	36 15.55	...	23 5.5	R
Mar. 17	...	7 28 35.23	...	62 50 27.6	M						
28	...	28 35.35	...	50 28.5	M						
25	...	28 35.14	...	50 27.1	M						
26	...	28 35.39	...	50 28.5	M						

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276 <i>Anon.</i>						282 <i>10 Cancri μ^2</i>					
Feb. 14	8.0	7 48 12.72	...	150 55 13.4	R	Mar. 16	...	8 0 45.68	...	68 4 26.7	M
18	8.2	48 12.30	...	55 10.7	R	17	...	0 45.66	...	4 27.3	M
25	8.6	48 12.70	...	55 12.8	R	283 <i>15 Argus.</i>					
26	8.6	48 12.72	...	55 14.3	R	Feb. 11	...	8 2 28.54	...	113 57 44.6	R
Mar. 1	8.6	48 12.62	...	55 12.9	M	23	...	2 28.56	...	57 45.1	R
277 <i>R. P. L. 49.</i>						Mar. 19	...	2 28.54	...	57 45.5	M
Feb. 21	...	7 48 14.58	3	5 36 13.1	R	24	...	2 28.60	...	57 44.5	M
28	...	48 15.25	3	86 13.6	R	26	...	2 28.60	...	57 44.4	M
Mar. 7	...	48 15.38	3	36 12.2	M	28	...	2 28.45	...	57 44.7	M
14	...	48 15.08	3	36 11.8	M	29	...	2 28.68	...	57 46.9	M
278 <i>Anon.</i>						30	...	2 28.59	...	57 44.8	M
Feb. 10	9.5	7 54 40.27	...	184 11 8.4	R	31	...	2 28.51	...	57 45.0	M
11	9.5	54 49.23	...	11 8.3	R	284 <i>γ Argus—2nd.</i>					
12	9.5	54 49.21	...	11 7.7	R	Feb. 23	...	8 5 51.80	...	136 59 10.9	R
28	9.5	54 49.19	...	11 10.7	R	Mar. 1	...	5 51.88	...	59 12.1	M
Mar. 2	9.5	54 49.34	...	11 10.0	M	2	...	5 52.08	...	59 9.7	M
279 <i>6 Cancri.</i>						4	...	5 51.81	...	59 10.2	M
Feb. 15	...	7 56 12.38	...	61 52 23.4	R	5	...	5 51.92	...	59 9.9	M
16	...	56 12.22	...	52 23.8	R	285 <i>Anon.</i>					
21	...	56 12.39	...	52 24.4	R	Feb. 15	6.5	8 6 15.91	...	141 29 33.0	R
23	...	56 12.41	...	52 24.1	R	16	6.5	6 15.89	...	29 34.4	R
26	...	56 12.45	...	52 24.9	R	17	7.0	6 15.87	...	29 31.8	R
Mar. 14	...	56 12.26	...	52 23.5	M	26	6.6	6 15.80	...	29 32.6	R
24	...	56 12.47	...	52 21.6	M	Mar. 3	7.0	6 15.84	6	29 33.8	M
280 <i>Anon.</i>						286 <i>17 Cancri β</i>					
Feb. 14	7.5	7 59 2.81	...	147 47 12.7	R	Feb. 14	...	8 10 3.63	...	80 26 54.5	R
17	8.0	59 2.78	...	47 13.8	R	18	...	10 3.72	...	26 56.6	R
22	8.0	59 2.84	...	47 15.1	R	19	...	10 3.66	...	26 55.4	R
Mar. 8	8.0	59 2.81	...	47 15.5	M	22	...	10 3.66	...	26 56.6	R
4	8.0	59 2.78	...	47 16.5	M	28	...	10 3.53	...	26 56.1	R
281 <i>ζ Argus.</i>						Mar. 7	...	10 3.72	...	26 57.5	M
Mar. 5	...	7 59 24.18	5	129 40 8.5	M	8	...	10 3.56	...	26 57.1	M
7	...	59 24.04	...	40 8.6	M	14	...	10 3.78	...	26 55.8	M
8	...	59 24.17	...	40 7.6	M	19	...	10 3.77	...	26 56.1	M
9	...	59 24.15	...	40 7.1	M	21	...	10 3.75	...	26 57.3	M
10	...	59 24.28	...	40 9.0	M	22	...	10 3.78	...	26 56.7	M

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287 <i>Anon.</i>						293 <i>43 Cancri γ</i>					
Feb. 15	8.0	8 13 42.40	...	143 6 21.8	R	Feb. 17	...	8 36 23.87	...	68 6 16.4	R
17	8.5	13 42.42	...	6 22.6	R	26	...	36 23.85	...	6 17.1	R
23	8.0	13 42.43	...	6 24.0	R	Mar. 9	...	36 23.83	...	6 17.0	M
26	8.0	13 42.37	...	6 22.2	R	10	...	36 23.71	...	6 17.4	M
Mar. 17	8.0	13 42.35	...	6 24.6	M	11	...	36 23.84	...	6 17.3	M
						14	...	36 23.80	...	6 16.8	M
						15	...	36 23.93	...	6 15.7	M
288 <i>ε Argūs.</i>						294 <i>11 Hydræ ε</i>					
Feb. 26	...	8 20 4.34	...	149 7 37.8	R	Mar. 23	...	8 40 28.51	...	83 8 44.0	M
28	...	20 4.32	...	7 37.4	R	30	...	40 28.27	...	8 44.1	M
Mar. 1	...	20 4.17	...	7 39.0	M						
2	...	20 4.40	...	7 38.1	M						
3	...	20 4.45	...	7 37.9	M						
289 <i>33 Cancri η</i>						295 <i>δ Argūs.</i>					
Feb. 17	...	8 25 49.55	...	69 9 20.0	R	Mar. 3	...	8 41 25.15	...	144 16 21.8	M
24	...	25 49.47	...	9 20.7	R	4	...	41 25.09	...	16 25.4	M
25	...	25 49.50	...	9 20.2	R	5	...	41 25.00	...	16 25.3	M
Mar. 4	...	25 49.34	...	9 21.5	M	7	...	41 25.16	...	16 24.4	M
5	...	25 49.47	...	9 19.4	M	8	...	41 25.07	...	16 24.8	M
290 <i>Anon.</i>						296 <i>R. P. L. 60.</i>					
Feb. 18	7.5	8 27 59.57	...	139 6 20.8	R	Mar. 19	...	8 50 16.52	3	5 20 37.9	M
						24	...	50 16.87	3	20 37.9	M
						29	...	50 17.00	3	20 37.2	M
291 <i>Anon.—1st Star.</i>						<i>R. P. L. 60—s.p.</i>					
Feb. 16	8.0	8 34 31.44	...	136 21 31.3	R	Aug. 15	...	8 50 16.31	3	5 20 43.2	M
24	8.0	34 31.31	...	21 30.4	R	Sep. 3	...	50 15.73	3	20 39.9	M
Mar. 1	8.0	34 31.28	...	21 30.1	M	14	...	50 15.22	3	20 44.2	M
3	8.0	34 31.46	...	21 30.3	M	24	...	50 15.70	3	20 43.2	M
5	8.0	34 31.25	...	21 30.5	M	Oct. 11	...	50 15.87	3	20 39.5	R
						15	...	50 14.91	3	20 42.4	R
						19	...	50 16.35	3	20 39.4	R
						22	...	50 16.41	3	20 39.1	R
292 <i>Anon.—2nd Star.</i>						297 <i>65 Cancri α</i>					
Feb. 28	8.0	3 34 42.83	...	136 21 49.6	R	Mar. 1	...	8 51 58.51	...	77 40 58.9	M
Mar. 2	8.0	34 42.95	...	21 47.8	M	2	...	51 58.65	...	40 57.8	M
4	8.0	34 42.94	...	21 51.9	M	8	...	51 58.57	...	40 57.5	M
7	8.0	34 43.02	...	21 50.1	M	9	...	51 58.66	...	40 57.7	M
8	8.0	34 43.07	...	21 50.1	M	10	...	51 58.67	...	40 58.1	M
						11	...	51 58.62	...	40 58.5	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
298 <i>76 Cancri κ</i>										303 <i>83 Cancri.</i>									
Mar. 3	...	9	1	18.16	...	78	51	13.9	M	Feb. 28	...	9	12	20.27	...	71	47	28.0	R
15	...		1	17.98	...		51	13.2	M	Mar. 1	...		12	20.36	...		47	25.7	M
16	...		1	18.12	...		51	14.1	M	23	...		12	20.18	...		47	26.9	M
17	...		1	17.99	...		51	15.8	M	31	...		12	20.22	...		47	26.7	M
18	...		1	17.97	...		51	14.8	M	Apl. 1	...		12	20.24	...		47	28.9	M
25	...		1	18.08	...		51	13.3	M	2	...		12	20.16	...		47	31.7	M
26	...		1	18.01	...		51	12.9	M	304 <i>ι Argūs.</i>									
29	...		1	17.97	...		51	15.1	M	Mar. 2	...	9	13	54.40	...	148	46	34.8	M
31	...		1	18.06	...		51	14.5	M	4	...		13	54.24	...		46	34.3	M
Apl. 1	...		1	18.13	...		51	16.8	M	8	...		13	54.24	...		46	37.2	M
2	...		1	18.16	...		51	15.4	M	10	...		13	54.35	...		46	37.8	M
299 <i>77 Cancri ξ</i>										14	...		13	54.29	...		46	36.5	M
Mar. 21	...	9	2	30.93	...	67	28	25.7	M	15	...		13	54.80	...		46	37.1	M
22	...		2	30.91	...		28	26.1	M	19	...		13	54.05	...		46	37.3	M
23	...		2	30.84	...		28	25.9	M	305 <i>26 Hydræ.</i>									
24	...		2	30.79	...		28	25.5	M	Feb. 26	...	9	14	2.44	...	101	28	22.5	R
300 <i>λ Argūs.</i>										Mar. 16	...		14	2.46	...		28	23.2	M
Mar. 1	...	9	3	37.25	...	132	57	11.0	M	17	...		14	2.57	...		28	22.9	M
2	...		3	37.30	...		57	10.2	M	18	...		14	2.56	...		28	23.6	M
4	...		3	37.29	...		57	14.4	M	306 <i>25 Ursæ Majoris θ</i>									
5	...		3	37.19	...		57	14.0	M	Mar. 25	...	9	24	53.36	...	37	46	52.4	M
8	...		3	37.32	...		57	12.8	M	26	...		24	53.30	...		46	53.1	M
301 <i>Lalande 18251.</i>										29	...		24	53.44	...		46	50.8	M
Mar. 16	...	9	9	18.57	...	74	29	50.3	M	30	...		24	53.52	...		46	58.1	M
17	...		9	18.66	...		29	49.9	M	31	...		24	53.39	...		46	51.5	M
18	...		9	18.53	...		29	51.0	M	Apl. 1	...		24	53.36	...		46	53.7	M
19	...		9	18.67	...		29	49.5	M	2	...		24	53.42	...		46	52.2	M
302 <i>β Argūs.</i>										4	...		24	53.30	...		46	52.8	R
Mar. 3	...	9	11	53.51	...	159	13	42.4	M	5	...		24	53.46	...		46	51.8	R
5	...		11	53.69	...		13	41.8	M	307 <i>R Carinæ, Var. 1.</i>									
7	...		11	53.63	...		13	41.8	M	Mar. 16	6.5	9	29	14.98	...	152	15	47.4	M
9	...		11	53.55	...		13	38.4	M	17	6.5		29	14.77	...		15	47.0	M
11	...		11	53.57	...		13	42.0	M	19	6.5		29	14.53	...		15	47.4	M
										21	...		29	14.84	...		15	46.8	M
										22	6.5		29	15.17	...		15	47.3	M
										23	6.5		29	15.06	...		15	46.2	M

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		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
Mar. 24	6.5	9 29 15.10	...	152 15 43.4	M	313 <i>ν Argūs.</i>					
26	6.5	29 15.12	4	15 44.9	M	Mar. 16	...	9 44 7.53	...	154 31 14.3	M
Apl. 6	7.0	29 15.01	...	15 44.0	R	17	...	44 7.40	...	31 14.2	M
7	7.0	29 14.93	...	15 43.2	R	19	...	44 7.56	...	31 16.6	M
						21	...	44 7.56	...	31 14.5	M
						22	...	44 7.53	...	31 18.9	M
308 <i>Anon.</i>											
Mar. 7	9.3	9 30 45.88	6	152 56 41.8	M	314 <i>24 Leonis μ</i>					
10	9.2	30 45.97	...	56 41.6	M	Mar. 24	...	9 45 59.52	...	63 25 59.4	M
14	9.2	30 45.91	...	56 41.3	M	25	...	45 59.53	...	26 0.1	M
29	9.2	30 45.82	6	56 41.3	M	26	...	45 59.58	...	25 59.5	M
Apl. 4	9.0	30 46.10	4	56 40.5	R	29	...	45 59.62	...	25 59.4	M
						30	...	45 59.70	...	26 0.2	M
309 <i>Anon.</i>						Apl. 5	...	45 59.58	...	25 59.3	R
Mar. 8	9.3	9 30 46.50	...	152 42 11.3	M	6	...	45 59.59	...	25 59.6	R
11	...	30 46.58	...	42 7.9	M	9	...	45 59.53	...	25 59.4	R
15	9.3	30 46.60	...	42 8.9	M	13	...	45 59.55	...	25 59.8	R
30	9.2	30 46.44	...	42 10.0	M	15	...	45 59.53	...	25 59.3	R
Apl. 5	9.0	30 46.60	...	42 7.1	R	21	...	45 59.54	...	25 59.9	R
						22	...	45 59.53	...	25 59.0	R
310 <i>14 Leonis ο</i>						26	...	45 59.50	...	25 58.2	R
Mar. 28	...	9 34 47.94	...	79 34 0.1	M	27	...	45 59.52	...	25 58.6	R
Apl. 1	...	34 47.85	...	34 3.2	M						
2	...	34 47.95	...	34 2.9	M	315 <i>R. P. L. 70.</i>					
8	...	34 47.88	...	33 59.5	R	Apl. 4	...	9 49 19.21	3	5 30 31.0	R
21	...	34 47.89	...	33 59.9	R	8	...	49 19.06	3	30 30.6	R
						12	...	49 19.34	3	30 29.7	R
311 <i>17 Leonis ε</i>						16	...	49 19.00	2	30 29.6	R
Apl. 4	...	9 39 5.68	...	65 40 42.9	R	20	...	49 19.16	3	30 29.3	R
12	...	39 5.68	...	40 42.6	R	25	...	49 19.28	3	30 30.4	R
14	...	39 5.69	...	40 43.1	R						
20	...	39 5.70	...	40 42.6	R	<i>R. P. L. 70—s.p.</i>					
23	...	39 5.69	...	40 39.3	R	Oct. 26	...	9 49 18.93	3	5 30 29.0	R
25	...	39 5.62	...	40 39.9	R						
28	...	39 5.63	...	40 41.1	R	316 <i>27 Leonis ν</i>					
29	...	39 5.63	...	40 41.3	R	Mar. 25	...	9 51 49.33	...	76 59 18.2	M
30	...	39 5.70	...	40 42.8	R	26	...	51 49.38	...	59 20.1	M
						29	...	51 49.31	...	59 20.0	M
312 <i>1 Carinae, Var.</i>											
Apl. 5	...	9 41 58.03	...	151 57 33.6	R						
6	...	41 58.08	...	57 34.4	R						
7	...	41 58.00	...	57 33.3	R						
9	...	41 58.07	...	57 35.8	R						
11	...	41 58.49	...	57 35.2	R						

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317 <i>R Velorum, Var. 1.</i>						323 <i>R Antliæ, Var. 1.</i>					
Apl. 5	7.0	10 1 40.80	...	141 36 30.7	R	Mar. 16	7.5	19 4 37.50	...	127 8 50.0	M
6	7.0	1 40.86	...	36 30.5	R	18	6.5	4 37.44	...	8 50.3	M
7	7.0	1 40.24	...	36 30.2	R	21	6.5	4 37.24	...	8 50.6	M
9	7.2	1 40.30	...	36 33.7	R	23	6.5	4 37.50	...	8 50.1	M
11	8.4	1 40.16	...	36 30.9	R	25	6.5	4 37.53	...	8 51.3	M
12	8.2	1 40.28	...	36 32.8	R	29	6.5	4 37.45	...	8 50.6	M
14	7.2	1 40.34	...	36 32.4	R	Apl. 4	7.2	4 37.42	...	8 49.9	R
16	8.0	1 40.16	...	36 32.9	R	8	8.6	4 37.44	...	8 48.8	R
19	8.2	1 40.32	...	36 32.0	R	13	8.2	4 37.87	...	8 50.5	R
20	8.2	1 40.80	...	36 31.7	R	15	9.0	4 37.41	...	8 49.6	R
318 <i>Anon.</i>						324 <i>S Carinæ, Var. 2.</i>					
Apl. 25	9.3	10 2 33.81	...	127 18 59.9	R	Mar. 17	6.5	10 5 34.30	...	150 58 0.0	M
29	9.3	2 33.88	...	19 1.1	R	19	6.5	5 34.44	...	58 0.3	M
May 6	9.2	2 33.77	...	19 0.7	R	22	6.5	5 34.57	...	57 58.2	M
9	9.5	2 33.78	...	19 1.5	M	24	6.5	5 34.52	...	57 57.5	M
10	9.5	2 33.76	...	19 1.7	M	26	6.5	5 34.58	...	58 0.9	M
319 <i>Anon.</i>						31	6.5	5 34.37	...	58 0.5	M
Apl. 26	9.0	10 2 49.81	...	127 46 38.7	R	Apl. 2	6.5	5 34.49	...	58 0.3	M
May 4	9.0	2 49.75	...	46 40.7	R	5	7.0	5 34.50	...	57 58.2	R
5	9.0	2 49.79	...	46 41.4	R	6	7.0	5 34.56	...	57 59.9	R
7	9.0	2 49.73	...	46 39.4	M	7	7.0	5 34.47	...	57 58.7	R
11	...	2 49.90	...	46 42.6	M	325 <i>Anon.</i>					
320 <i>Anon.</i>						Apl. 25	9.3	10 6 23.12	...	126 58 37.2	R
Apl. 28	9.4	10 2 59.78	...	126 28 44.1	R	29	9.9	6 23.08	...	58 35.5	R
30	9.5	2 59.76	...	28 44.6	R	May 4	9.0	6 22.98	...	58 37.4	R
May 12	9.5	2 59.84	5	28 46.8	M	9	9.0	6 23.07	...	58 40.0	M
14	9.5	3 0.03	6	28 45.9	M	10	9.0	6 23.03	...	58 39.6	M
321 <i>Anon.</i>						326 <i>Anon.</i>					
Apl. 27	9.4	10 3 8.33	...	127 21 20.4	R	Apl. 26	9.5	10 7 1.94	...	127 34 41.9	R
May 3	9.5	3 8.47	...	21 18.9	R	27	9.5	7 2.00	...	34 42.2	R
322 <i>33 Leonis.</i>						28	9.5	7 1.87	...	34 42.4	R
Mar. 30	8.3	10 4 16.66	...	73 42 30.4	M	May 6	9.5	7 1.85	...	34 43.0	R
Apl. 1	8.0	4 16.56	...	42 32.8	M	7	9.5	7 1.91	5	34 43.6	M
23	8.2	4 16.69	...	42 32.7	R	327 <i>33 Ursæ Majoris λ</i>					
						May 11	...	10 9 54.82	...	46 29 32.0	M
						12	...	9 54.79	...	29 31.7	M
						14	...	9 54.94	...	29 30.2	M
						16	...	9 54.82	...	29 30.7	M

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328 <i>R. P. L. 72.</i>						Apl. 15	...	10 20 20.11	...	106 13 46.4	R
May 3	...	10 12 7.19	3	5 8 40.6	R	19	...	20 20.12	...	13 45.6	R
5	...	12 8.27	3	8 40.3	R	22	...	20 20.12	...	13 45.1	R
<i>R. P. L. 72—s.p.</i>						332 <i>Anon.</i>					
Oct. 31	...	10 12 6.60	3	5 8 37.4	R	Apl. 22	9.5	10 26 18.25	...	146 59 19.4	R
329 <i>41 Leonis γ^1</i>						23	9.4	26 18.15	...	59 19.3	R
Apl. 4	...	10 13 24.58	...	69 33 25.0	R	27	9.2	26 18.26	...	59 19.9	R
6	...	13 24.59	...	33 24.5	R	30	9.5	26 18.36	...	59 20.3	R
7	...	13 24.60	...	33 24.2	R	333 <i>47 Leonis ρ</i>					
11	...	13 24.61	...	33 23.5	R	Apl. 6	...	10 26 32.81	...	80 4 52.3	R
12	...	13 24.49	...	33 23.9	R	7	...	26 32.72	...	4 51.8	R
14	...	13 24.61	...	33 23.6	R	9	...	26 32.65	...	4 50.8	R
16	...	13 24.54	...	33 24.4	R	11	...	26 32.71	...	4 52.1	R
19	...	13 24.60	...	33 23.8	R	14	...	26 32.70	...	4 52.1	R
20	...	13 24.59	...	33 22.1	R	334 <i>ρ Carinæ.</i>					
26	...	13 24.61	...	33 22.3	R	Mar. 24	...	10 27 47.90	...	151 4 26.4	M
27	...	13 24.58	...	33 23.1	R	25	...	27 47.82	...	4 24.7	M
28	...	13 24.61	...	33 23.5	R	26	...	27 47.79	...	4 27.2	M
330 <i>34 Ursæ Majoris μ</i>						30	...	27 47.74	...	4 26.7	M
Mar. 30	...	10 15 13.99	...	47 54 8.8	M	335 <i>θ Argûs.</i>					
31	...	15 14.00	...	54 8.9	M	Mar. 24	...	10 38 43.09	...	153 46 17.6	M
Apl. 1	...	15 13.90	...	54 7.1	M	25	...	38 42.93	...	46 17.6	M
2	...	15 13.84	...	54 8.9	M	26	...	38 42.90	...	46 18.2	M
8	...	15 14.08	...	54 7.5	R	29	...	38 42.89	...	46 17.7	M
331 <i>42 Hydræ μ</i>						30	...	38 42.90	...	46 18.0	M
Mar. 16	...	10 20 19.89	...	106 13 43.7	M	336 <i>Taylor 4850—2nd.</i>					
17	...	20 20.12	...	13 45.8	M	Apl. 19	8.0	10 39 21.12	...	148 55 21.7	R
18	...	20 20.00	...	13 45.1	M	20	8.0	39 21.11	...	55 21.8	R
19	...	20 20.10	...	13 44.6	M	21	8.0	39 21.25	...	55 21.3	R
22	...	20 20.07	...	13 45.5	M	22	8.0	39 21.18	...	55 21.0	R
23	...	20 20.09	...	13 46.2	M	337 <i>Taylor 4852—1st.</i>					
24	...	20 20.11	...	13 44.2	M	Apl. 15	8.0	10 39 30.96	...	148 57 4.2	R
Apl. 5	...	20 20.12	...	13 45.0	R	16	8.0	39 30.81	...	57 3.7	R
7	...	20 20.23	...	13 44.3	R						
9	...	20 20.18	...	13 47.0	R						
11	...	20 20.26	...	13 45.2	R						
13	...	20 20.11	...	13 44.8	R						

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
338 <i>η Argūs, Var. 1.</i>																			
Apl. 6	7.5	10	40	26.90	...	149	3	35.7	R	Apl. 4	...	10	54	24.80	...	85	44	38.2	R
7	7.5		40	26.88	...		3	32.3	R	12	...		54	24.87	...		44	37.5	R
9	7.5		40	26.85	...		3	35.0	R	15	...		54	24.86	...		44	39.4	R
13	7.8		40	26.75	...		3	34.8	R	16	...		54	24.86	...		44	39.3	R
339 <i>μ Argūs.</i>																			
Apl. 1	...	10	41	39.16	...	138	47	30.0	M	19	...		54	24.85	...		44	39.3	R
8	...		41	38.99	5		47	29.0	R	21	...		54	24.79	...		44	39.0	R
11	...		41	39.19	...		47	30.4	R	25	...		54	24.88	...		44	39.4	R
12	...		41	39.11	...		47	30.9	R	27	...		54	24.91	...		44	38.1	R
14	...		41	39.00	...		47	31.2	R	29	...		54	24.82	...		44	39.0	R
340 <i>53 Leonis l.</i>																			
Mar. 21	...	10	43	0.01	...	78	49	30.6	M	30	...		54	24.79	...		44	39.2	R
Apl. 4	...		43	0.08	...		49	31.4	R	344 <i>48 Ursæ Majoris β, Markab.</i>									
5	...		43	0.06	...		49	30.8	R	Apl. 20	...	10	54	38.96	...	32	58	48.9	R
341 <i>Lacaille 4502.</i>																			
Mar. 28	7.5	10	47	13.37	...	141	10	4.7	M	23	...		54	39.08	...		58	46.6	R
29	7.5		47	13.46	...		10	6.5	M	26	...		54	39.18	...		58	47.1	R
30	7.5		47	13.42	...		10	8.0	M	May 3	...		54	38.95	...		58	46.2	R
31	7.5		47	13.40	...		10	7.7	M	4	...		54	39.06	...		58	47.2	R
342 <i>T Carinæ, Var.</i>																			
Apl. 5	8.0	10	50	32.23	...	149	53	6.7	R	345 <i>50 Ursæ Majoris α, Dubhe.</i>									
6	8.0		50	32.22	...		53	6.5	R	Apl. 11	...	10	56	22.30	...	27	36	24.1	R
7	8.0		50	32.12	...		53	6.0	R	13	...		56	22.31	...		36	24.0	R
8	8.0		50	32.11	...		53	6.6	R	14	...		56	22.23	...		36	24.0	R
9	7.8		50	32.10	...		53	8.3	R	22	...		56	22.39	...		36	25.9	R
13	6.9		50	32.17	...		53	8.7	R	28	...		56	22.28	...		36	22.1	R
14	7.0		50	32.21	...		53	7.9	R	May 6	...		56	22.45	...		36	23.1	R
15	7.0		50	32.32	...		53	6.9	R	7	...		56	22.41	...		36	24.8	M
16	8.0		50	32.10	...		53	7.4	R	9	...		56	22.38	...		36	23.6	M
19	7.8		50	32.23	...		53	6.9	R	11	...		56	22.30	...		36	24.1	M
343 <i>58 Leonis d.</i>																			
Mar. 31	...	10	54	24.91	...	85	44	38.8	M	346 <i>63 Leonis χ</i>									
Apl. 1	...		54	24.77	...		44	39.4	M	Apl. 6	...	10	58	52.55	...	82	1	14.5	R
2	...		54	24.96	...		44	40.2	M	7	...		58	52.49	...		1	14.0	R
347 <i>R. P. L. 79.</i>																			
										8	...		58	52.65	...		1	13.7	R
										9	...		58	52.67	...		1	15.5	R
										May 10	...	10	59	49.97	3	1	42	49.4	M

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"		
359 Taylor 5372.																				
Apl. 6	8.5	11	36	2.17	...	84	35	37.2	R	365 8 Virginis π	Apl. 2	...	11	54	46.07	...	82	43	18.6	M
7	8.5		36	2.09	...		35	37.0	R		9	...		54	46.49	...		43	18.8	R
9	8.0		36	2.18	...		35	37.8	R		13	...		54	46.52	...		43	20.4	R
12	7.0		36	1.99	...		35	38.0	R		14	...		54	46.50	...		43	18.5	R
19	8.8		36	2.07	...		35	36.8	R		May 3	...		54	46.55	...		43	17.9	R
20	8.7		36	2.07	...		35	37.7	R		4	...		54	46.47	...		43	19.3	R
											5	...		54	46.52	...		43	18.4	R
360 2 Virginis ξ																				
Apl. 4	...	11	39	8.89	...	81	4	48.5	R	6	...		54	46.49	...		43	18.7	R	
14	...		39	8.91	...		4	48.1	R	7	...		54	46.50	...		43	17.8	M	
15	...		39	8.90	...		4	49.2	R	9	...		54	46.54	...		43	17.9	M	
21	...		39	8.85	...		4	47.9	R	10	...		54	46.57	...		43	17.7	M	
										11	...		54	46.55	...		43	17.7	M	
										12	...		54	46.46	...		43	18.7	M	
										14	...		54	46.56	...		43	18.3	M	
361 3 Virginis ν																				
Apl. 1	...	11	39	44.67	...	82	48	12.2	M	366 R. P. L. 89—s.p.										
362 94 Leonis β, Deneb.										Oct. 7	...	11	58	43.93	3	3	45	14.0	R	
Apl. 20	...	11	42	59.33	...	74	45	42.2	R	Nov. 9	...		58	44.98	3		45	15.7	M	
23	...		42	59.32	...		45	44.4	R	16	...		58	45.41	3		45	14.3	M	
25	...		42	59.35	...		45	44.5	R	23	...		58	44.71	3		45	15.9	M	
26	...		42	59.34	...		45	42.8	R	367 δ Centauri.										
363 Groombridge 1830.										Apl. 5	...	12	2	11.70	...	140	3	34.1	R	
Apl. 4	7.0	11	46	7.00	...	51	25	41.1	R	8	...		2	11.85	...		3	34.3	R	
7	7.0		46	7.04	...		25	39.7	R	12	...		2	11.81	...		3	35.0	R	
9	7.5		46	6.97	...		25	41.2	R	14	...		2	11.83	...		3	34.3	R	
11	7.0		46	6.87	...		25	42.0	R	15	...		2	11.82	...		3	33.8	R	
13	7.4		46	6.80	...		25	42.2	R	368 Taylor 5574.										
14	7.0		46	7.11	...		25	42.9	R	Apl. 6	7.0	13	3	35.10	...	141	7	16.2	R	
15	7.0		46	6.97	...		25	42.7	R	7	7.0		3	35.17	...		7	15.8	R	
19	7.5		46	6.85	...		25	40.7	R	9	7.5		3	34.95	...		7	15.9	R	
21	7.5		46	6.88	...		25	40.7	R	13	7.8		3	35.11	...		7	17.9	R	
22	7.2		46	6.91	...		25	41.0	R	369 2 Corvi ε										
364 Taylor 5450.										Apl. 19	...	13	4	0.41	...	111	57	27.6	R	
Apl. 6	8.4	11	47	58.37	...	84	27	32.3	R	20	...		4	0.41	...		57	27.4	R	
8	8.8		47	58.19	...		27	31.3	R											
12	...		47	58.23	...		27	32.3	R											

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
370 <i>δ Crucis.</i>										375 <i>γ Corvi δ</i>									
Apl. 7	...	12	8	49 ^h 94	...	148	5	10 ^m 0	R	May 2	...	12	23	42 ^m 06	...	105	51	10 ^s 1	R
9	...		8	49 ^h 92	...		5	9 ^m 7	R	3	...		23	42 ^m 08	...		51	9 ^s 7	R
12	...		8	49 ^h 94	...		5	12 ^m 6	R	4	...		23	42 ^m 55	...		51	10 ^s 9	R
13	...		8	49 ^h 97	...		5	12 ^m 8	R	5	...		23	42 ^m 51	...		51	9 ^s 6	R
15	...		8	49 ^h 93	...		5	10 ^m 7	R	7	...		23	42 ^m 64	...		51	11 ^s 2	M
										9	...		23	42 ^m 51	...		51	9 ^s 7	M
										10	...		23	42 ^m 63	...		51	11 ^s 0	M
										11	...		23	42 ^m 64	...		51	11 ^s 7	M
										12	...		23	42 ^m 60	...		51	12 ^s 2	M
										14	...		23	42 ^m 63	...		51	12 ^s 0	M
										16	...		23	42 ^m 75	...		51	10 ^s 8	M
										17	...		23	42 ^m 58	...		51	12 ^s 0	M
										18	...		23	42 ^m 62	...		51	12 ^s 0	M
										19	...		23	42 ^m 72	...		51	10 ^s 1	M
										20	...		23	42 ^m 57	...		51	11 ^s 6	M
										21	...		23	42 ^m 53	...		51	10 ^s 3	M
										23	...		23	42 ^m 60	...		51	8 ^s 9	M
										24	...		23	42 ^m 48	...		51	10 ^s 3	M
371 <i>4 Corvi γ</i>										376 <i>γ Crucis.</i>									
Apl. 6	...	12	9	41 ^h 17	...	106	52	51 ^m 1	R	Apl. 7	...	13	24	34 ^m 31	...	146	26	48 ^s 7	R
8	...		9	41 ^h 28	...		52	49 ^m 3	R	8	...		24	34 ^m 25	...		26	47 ^s 4	R
14	...		9	41 ^h 21	...		52	51 ^m 0	R	9	...		24	34 ^m 31	...		26	48 ^s 0	R
19	...		9	41 ^h 13	...		52	52 ^m 0	R	20	...		24	34 ^m 08	...		26	49 ^s 1	R
20	...		9	41 ^h 03	...		52	52 ^m 0	R	23	...		24	34 ^m 26	...		26	47 ^s 0	R
372 <i>15 Virginis η</i>										377 <i>G. Z. C. XII. 1548.</i>									
Apl. 7	...	12	13	49 ^h 03	...	90	0	17 ^m 4	R	Apl. 21	8 ^m 6	13	25	35 ^m 26	...	151	4	17 ^s 0	R
15	...		13	48 ^h 99	...		0	20 ^m 6	R	25	9 ^m 0		25	35 ^m 43	...		4	16 ^s 5	R
21	...		13	49 ^h 05	...		0	19 ^m 4	R	26	9 ^m 0		25	35 ^m 39	...		4	16 ^s 5	R
23	...		13	49 ^h 04	...		0	19 ^m 6	R	27	9 ^m 0		25	35 ^m 29	...		4	15 ^s 8	R
26	...		13	49 ^h 07	...		0	17 ^m 5	R	378 <i>Anon.</i>									
28	...		13	49 ^h 06	...		0	18 ^m 6	R	Apl. 13	9 ^m 5	13	25	49 ^m 27	4	159	16	6 ^s 0	R
29	...		13	49 ^h 02	...		0	18 ^m 6	R	14	9 ^m 6		25	49 ^m 44	4		16	5 ^s 4	R
30	...		13	49 ^h 06	...		0	19 ^m 7	R	15	9 ^m 8		25	49 ^m 26	5		16	5 ^s 3	R
373 <i>16 Virginis ε.</i>										19	9 ^m 6		25	49 ^m 40	...		16	8 ^s 2	R
Apl. 8	...	12	14	18 ^h 41	...	86	1	28 ^m 2	R	22	9 ^m 5		25	49 ^m 46	...		16	5 ^s 7	R
9	...		14	18 ^h 31	...		1	28 ^m 9	R										
13	...		14	18 ^h 34	...		1	27 ^m 9	R										
14	...		14	18 ^h 53	...		1	27 ^m 3	R										
19	...		14	18 ^h 27	...		1	27 ^m 9	R										
20	...		14	18 ^h 24	...		1	27 ^m 6	R										
22	...		14	18 ^h 30	...		1	27 ^m 4	R										
25	...		14	18 ^h 28	...		1	26 ^m 8	R										
27	...		14	18 ^h 44	...		1	27 ^m 7	R										
374 <i>Anon.</i>																			
Apl. 6	9 ^m 0	12	18	12 ^m 32	...	24	48	42 ^s 7	R										

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379 <i>9 Corvi β</i>						384 <i>29 Virginis γ¹</i>					
May 6	...	12 28 8.14	...	112 44 17.6	R	May 6	...	12 35 37.80	...	90 47 44.2	R
16	...	28 8.13	...	44 19.3	M	21	...	35 37.93	...	47 41.2	M
17	...	28 8.14	...	44 19.6	M	23	...	35 37.86	...	47 42.6	M
18	...	28 8.04	...	44 19.1	M	24	...	35 37.89	...	47 42.1	M
19	...	28 8.15	...	44 17.3	M	385 <i>Anon.</i>					
380 <i>5 Draconis κ</i>						Apl. 7	8.5	12 37 42.59	...	158 22 42.8	R
Apl. 23	...	12 28 23.60	5	19 33 18.5	R	8	8.4	37 42.56	...	22 42.5	R
May 7	...	28 23.88	5	33 18.1	M	9	8.5	37 42.51	...	22 41.3	R
9	...	28 23.89	6	33 19.2	M	13	8.0	37 42.59	...	22 39.3	R
10	...	28 23.84	6	33 18.8	M	15	8.2	37 42.43	...	22 43.1	R
11	...	28 24.09	6	33 19.5	M	386 <i>Lacaille 5255.</i>					
381 <i>Lacaille 5219.</i>						May 16	7.5	12 37 43.94	...	158 10 46.1	M
Apl. 6	8.0	12 30 53.41	...	158 56 52.3	R	17	7.5	37 43.89	...	10 47.1	M
7	8.0	30 53.28	...	56 52.6	R	18	...	37 43.93	...	10 46.1	M
8	8.0	30 53.29	...	56 52.3	R	19	7.5	37 43.65	...	10 46.7	M
9	8.2	30 53.32	...	56 50.3	R	20	7.5	37 43.86	...	10 42.7	M
15	8.5	30 53.31	...	56 55.1	R	387 <i>β Crucis.</i>					
382 <i>R Muscæ, Var. 1.</i>						Apl. 29	...	12 40 46.51	...	149 2 16.6	R
Apl. 14	7.0	12 34 50.05	...	158 45 16.6	R	May 4	...	40 46.73	...	2 18.5	R
19	8.5	34 49.98	...	45 16.5	R	7	...	40 46.68	...	2 17.0	M
20	8.5	34 49.98	...	45 17.1	R	11	...	40 46.63	5	2 17.5	M
21	7.6	34 49.86	...	45 17.2	R	12	...	40 46.61	...	2 19.5	M
22	7.6	34 49.88	...	45 16.4	R	388 <i>Brisbane 4197.</i>					
23	7.8	34 49.88	...	45 15.8	R	Apl. 25	8.5	12 41 46.76	...	141 58 27.2	R
27	7.2	34 49.83	...	45 15.9	R	30	9.0	41 46.54	4	58 28.1	R
28	7.2	34 49.86	...	45 15.0	R	389 <i>Brisbane 4200.</i>					
30	9.0	34 49.93	4	45 15.5	R	Apl. 26	9.0	12 42 37.43	...	141 55 5.6	R
May 3	8.5	34 49.97	...	45 15.3	R	28	9.0	42 37.29	...	55 4.8	R
383 <i>γ Centauri.</i>						May 3	8.8	42 37.43	...	55 7.2	R
Apl. 25	...	12 34 57.57	...	138 18 20.8	R	390 <i>Anon.</i>					
26	...	34 57.51	...	18 20.5	R	Apl. 13	8.0	12 43 39.75	...	158 59 43.4	R
May 9	...	34 57.64	...	18 23.4	M	14	8.0	43 39.69	...	59 47.1	R
10	...	34 57.61	...	18 22.3	M	19	8.4	43 39.96	...	59 49.7	R
11	...	34 57.55	...	18 22.4	M	21	8.5	43 39.81	...	59 50.2	R
						22	8.5	43 39.86	...	59 49.3	R

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391 <i>Anon.</i>						May 31	...	12 49 36.65	...	85 57 20.2	M
Apl. 15	8.2	12 46 37.88	...	159 23 27.3	R	June 2	...	49 36.62	...	57 21.3	R
20	8.2	46 38.04	...	23 30.4	R	4	...	49 36.63	...	57 17.9	R
23	8.5	46 38.03	...	23 26.7	R	6	...	49 36.56	...	57 18.9	R
27	8.6	46 37.98	...	23 25.8	R	395 <i>O. A. S. 12539.</i>					
May 9	9.0	46 38.12	...	23 29.8	M	May 14	...	12 50 54.42	...	118 18 20.4	M
392 <i>R. P. L. 99.</i>						396 <i>Anon.</i>					
May 21	...	12 48 15.89	3	5 56 21.5	M	Apl. 23	9.5	12 51 53.60	...	106 7 38.6	R
27	...	48 16.61	3	56 22.4	M	May 17	9.5	51 53.64	...	7 39.6	M
<i>R. P. L. 99—s.p.</i>						18	9.5	51 53.69	...	7 38.5	M
Dec. 15	...	12 48 14.98	2	5 56 24.5	R	397 <i>47 Virginis ε</i>					
23	...	48 15.73	3	56 25.2	R	Apl. 25	...	12 56 15.18	...	78 24 1.8	R
393 <i>Anon.</i>						26	...	56 15.16	...	24 1.3	R
Apl. 25	9.0	12 48 39.46	...	99 47 16.4	R	27	...	56 15.17	...	24 0.5	R
26	9.0	48 39.43	...	47 15.8	R	28	...	56 15.24	...	24 0.9	R
28	9.2	48 39.45	...	47 16.9	R	30	...	56 15.19	...	24 3.5	R
30	9.2	48 39.33	...	47 16.6	R	May 2	...	56 15.17	...	24 2.1	R
May 3	9.0	48 39.39	...	47 17.7	R	3	...	56 15.06	...	24 3.4	R
394 <i>43 Virginis δ</i>						9	...	56 15.12	...	24 3.3	M
Apl. 21	...	12 49 36.58	...	85 57 19.6	R	10	...	56 15.03	...	24 3.9	M
22	...	49 36.62	...	57 19.6	R	11	...	56 15.26	...	24 2.5	M
29	...	49 36.66	...	57 18.0	R	12	...	56 15.26	...	24 2.1	M
May 4	...	49 36.64	...	57 19.4	R	14	...	56 15.06	...	24 2.3	M
5	...	49 36.62	...	57 18.4	R	398 <i>S Centauri, Var. 2.</i>					
6	...	49 36.57	...	57 18.5	R	Apl. 30	8.3	18 8 43.98	...	142 16 22.9	R
7	...	49 36.68	...	57 20.1	M	May 2	7.0	8 44.01	...	16 22.7	R
10	...	49 36.66	...	57 20.8	M	8	7.0	8 44.06	...	16 21.3	R
12	...	49 36.60	...	57 21.2	M	4	8.0	8 43.97	...	16 22.2	R
19	...	49 36.50	...	57 20.1	M	6	8.0	8 44.10	...	16 24.2	R
20	...	49 36.56	...	57 20.3	M	7	8.0	8 43.91	...	16 24.5	M
23	...	49 36.68	...	57 18.8	M	9	8.0	8 44.12	...	16 24.7	M
24	...	49 36.68	...	57 20.1	M	12	8.0	8 44.10	6	16 24.6	M
25	...	49 36.59	...	57 20.2	M	14	...	8 43.96	...	16 23.8	M
26	...	49 36.47	...	57 19.8	M	19	8.0	8 44.01	...	16 23.2	M
28	...	49 36.57	...	57 21.5	M						
30	...	49 36.58	...	57 21.3	M						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
399 51 Virginis θ																			
May 16	...	18	3'	47.43	...	94	54	11.4	M	May 2	...	13	19	8.51	...	34	27	18.9	R
17	...		3	47.39	...		54	13.2	M	14	...		19	8.70	...		27	18.7	M
18	...		3	47.42	...		54	11.5	M	17	...		19	8.58	...		27	20.5	M
20	...		3	47.43	...		54	13.0	M	19	...		19	8.53	...		27	20.2	M
25	...		3	47.41	...		54	12.2	M	20	...		19	8.63	...		27	20.3	M
26	...		3	47.35	...		54	11.7	M										
400 ι Centauri.																			
Apl. 28	...	13	13	54.68	...	126	5	1.9	R	May 2	...	13	25	46.67	...	95	38	26.0	R
29	...		13	54.58	...		5	1.1	R	3	...		25	46.68	...		38	25.7	R
30	...		13	54.62	...		5	2.8	R	7	...		25	46.66	...		38	25.3	M
May 2	...		13	54.67	...		5	2.6	R										
3	...		13	54.54	...		5	1.9	R										
401 O. A. N. 13563.																			
May 4	8.0	13	16	2.60	4	27	58	32.3	R	May 4	...	13	28	37.81	...	89	59	13.1	R
7	8.0		16	2.70	...		58	35.7	M	27	...		28	37.80	...		59	14.5	M
9	8.0		16	2.72	...		58	35.4	M										
12	8.0		16	2.66	...		58	34.2	M										
402 67 Virginis α, Spica.																			
May 25	...	13	18	55.32	...	100	32	23.7	M	May 14	...	13	29	19.97	...	94	47	21.9	M
26	...		18	55.48	...		32	25.5	M	16	...		29	19.78	...		47	22.3	M
28	...		18	55.42	...		32	26.0	M	18	...		29	19.91	...		47	23.4	M
30	...		18	55.50	...		32	24.9	M	21	...		29	19.79	...		47	21.7	M
31	...		18	55.47	...		32	25.8	M										
June 2	...		18	55.44	...		32	22.4	R										
4	...		18	55.42	...		32	22.4	R										
6	...		18	55.43	...		32	22.4	R										
403 79 Ursæ Majoris ζ—1st.																			
Apl. 30	...	13	19	7.80	...	34	27	7.8	R	May 3	...	13	32	21.34	...	142	51	37.1	R
May 3	...		19	7.88	...		27	8.1	R	20	...		32	21.36	...		51	38.5	M
11	...		19	7.93	...		27	9.0	M	23	...		32	21.21	...		51	37.4	M
16	...		19	7.98	...		27	5.7	M	26	...		32	21.22	...		51	39.6	M
18	...		19	7.75	...		27	7.3	M	28	...		32	21.29	...		51	39.3	M
404 79 Ursæ Majoris ζ—2nd.																			
May 2	...	13	19	8.51	...	34	27	18.9	R										
14	...		19	8.70	...		27	18.7	M										
17	...		19	8.58	...		27	20.5	M										
19	...		19	8.53	...		27	20.2	M										
20	...		19	8.63	...		27	20.3	M										
405 74 Virginis l ² .																			
May 2	...	13	25	46.67	...	95	38	26.0	R										
3	...		25	46.68	...		38	25.7	R										
7	...		25	46.66	...		38	25.3	M										
406 79 Virginis ζ																			
May 4	...	13	28	37.81	...	89	59	13.1	R										
27	...		28	37.80	...		59	14.5	M										
407 80 Virginis.																			
May 14	...	13	29	19.97	...	94	47	21.9	M										
16	...		29	19.78	...		47	22.3	M										
18	...		29	19.91	...		47	23.4	M										
21	...		29	19.79	...		47	21.7	M										
408 Taylor 6294.																			
May 10	6.5	13	30	12.05	...	135	49	7.4	M	May 10	6.5	13	30	12.05	...	135	49	7.4	M
12	6.5		30	12.07	...		49	8.0	M	12	6.5		30	12.07	...		49	8.0	M
17	6.5		30	11.91	...		49	8.3	M	17	6.5		30	11.91	...		49	8.3	M
19	6.5		30	12.11	...		49	5.9	M	19	6.5		30	12.11	...		49	5.9	M
409 ε Centauri.																			
May 3	...	13	32	21.34	...	142	51	37.1	R	May 3	...	13	32	21.34	...	142	51	37.1	R
20	...		32	21.36	...		51	38.5	M	20	...		32	21.36	...		51	38.5	M
23	...		32	21.21	...		51	37.4	M	23	...		32	21.21	...		51	37.4	M
26	...		32	21.22	...		51	39.6	M	26	...		32	21.22	...		51	39.6	M
28	...		32	21.29	...		51	39.3	M	28	...		32	21.29	...		51	39.3	M

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410 <i>4 Bootis τ</i>						415 <i>ζ Centauri.</i>					
May 2	...	12 41 36.39	...	71 56 59.3	R	May 7	...	13 48 7.29	...	136 42 6.7	M
3	...	41 36.43	...	56 58.9	R	9	...	48 7.35	...	42 6.1	M
7	...	41 36.37	...	56 58.5	M	10	...	48 7.17	...	42 7.3	M
9	...	41 36.55	...	56 58.2	M	11	...	48 7.36	...	42 5.9	M
27	...	41 36.49	...	56 58.2	M	12	...	48 7.14	6	42 7.3	M
28	...	41 36.46	...	57 0.0	M	416 <i>8 Bootis η</i>					
30	...	41 36.42	...	57 0.5	M	May 21	...	13 49 1.26	...	71 0 21.2	M
31	...	41 36.41	...	57 0.2	M	417 <i>β Centauri.</i>					
June 2	...	41 36.37	...	57 1.8	R	May 7	...	13 55 25.98	...	149 47 55.8	M
6	...	41 36.47	...	56 57.8	R	9	...	55 25.93	...	47 55.2	M
7	...	41 36.50	...	56 58.9	R	12	...	55 26.09	...	47 53.4	M
21	...	41 36.47	...	56 58.0	R	16	...	55 26.20	...	47 56.4	M
22	...	41 36.44	...	56 59.1	R	17	...	55 26.18	...	47 56.4	M
411 <i>ν Centauri.</i>						18	...	55 26.07	...	47 57.4	M
May 4	...	13 42 22.12	...	131 5 39.0	R	418 <i>93 Virginis τ</i>					
10	...	42 22.27	...	5 38.9	M	May 27	...	13 55 35.52	...	87 52 46.8	M
12	...	42 22.09	...	5 39.7	M	419 <i>5 Centauri θ</i>					
14	...	42 22.18	...	5 38.8	M	May 10	...	13 59 40.83	...	125 47 4.1	M
17	...	42 22.25	...	5 39.4	M	11	...	59 41.01	4	47 5.0	M
412 <i>μ Centauri.</i>						14	...	59 40.98	...	47 4.3	M
May 16	...	13 42 27.15	...	131 52 48.1	M	19	...	59 40.94	...	47 5.1	M
18	...	42 27.02	...	52 50.1	M	20	...	59 40.92	...	47 2.8	M
20	...	42 27.14	...	52 49.9	M	420 <i>94 Virginis.</i>					
26	...	42 27.13	...	52 50.2	M	May 24	...	13 59 59.85	...	98 19 22.1	M
June 4	...	42 27.14	...	52 48.4	R	28	...	59 59.68	...	19 23.8	M
413 <i>85 Ursæ Majoris η</i>						30	...	59 59.70	...	19 24.0	M
May 19	...	13 42 50.79	...	40 5 33.6	M	31	...	59 59.72	...	19 22.5	M
21	...	42 50.78	...	5 33.3	M	421 <i>95 Virginis.</i>					
25	...	42 51.00	...	5 31.1	M	May 25	...	14 0 25.12	...	98 44 41.6	M
414 <i>Anon.</i>											
May 31	9.5	13 46 23.71	...	128 28 11.7	M						
June 6	9.5	46 23.65	...	28 9.8	R						
7	9.5	46 23.62	...	28 10.7	R						
16	9.5	46 23.68	...	28 8.6	R						

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h. m. s.						° ' "				h. m. s.						° ' "			
422 Taylor 6585.										428 Anon.									
June 6	8.5	14	2	22.50	...	124	18	56.3	R	May 17	9.7	14	13	36.38	...	136	54	37.1	M
7	8.5		2	22.63	...		18	59.3	R	18	9.7		13	36.52	...		54	38.0	M
16	9.0		2	22.48	...		18	56.6	R	20	9.7		13	36.29	5		54	33.7	M
18	9.0		2	22.70	...		18	56.7	R	30	9.7		13	36.32	...		54	38.5	M
423 Lacaille 5844.										429 Anon.									
May 17	8.0	14	6	18.26	...	151	8	57.4	M	May 17	...	14	20	34.76	...	124	43	4.2	M
19	8.0		6	18.31	...		8	57.6	M	18	...		20	34.89	...		43	0.3	M
20	8.0		6	18.34	...		9	0.3	M	19	9.0		20	34.70	...		43	0.6	M
30	8.0		6	18.25	...		8	59.0	M	20	9.0		20	34.63	...		43	2.6	M
424 98 Virginis κ										430 22 Bootis f.									
May 16	...	14	6	32.79	...	99	43	5.4	M	May 7	...	14	20	55.27	...	70	14	14.6	M
18	...		6	32.89	...		43	6.0	M	9	...		20	55.36	...		14	14.6	M
425 Taylor 6616.										10	...		20	55.34	...		14	13.2	M
May 21	...	14	6	40.26	...	146	31	39.8	M	11	...		20	55.17	...		14	14.8	M
25	...		6	40.31	4		31	38.9	M	12	...		20	55.19	...		14	15.9	M
27	...		6	40.11	...		31	38.8	M	14	...		20	55.39	...		14	13.7	M
28	...		6	40.18	...		31	41.2	M	16	...		20	55.17	...		14	13.7	M
426 16 Bootis α, Arcturus.										21	...		20	55.25	...		14	15.6	M
June 4	...	14	10	13.97	...	70	11	49.5	R	23	...		20	55.33	...		14	15.6	M
7	...		10	13.92	...		11	52.7	R	30	...		20	55.28	...		14	16.0	M
17	...		10	14.02	...		11	50.8	R	31	...		20	55.26	...		14	16.6	M
427 100 Virginis λ										June 6	...		20	55.26	...		14	14.8	R
May 19	...	14	12	40.31	...	102	49	20.3	M	7	...		20	55.36	...		14	16.8	R
21	...		12	40.15	...		49	21.7	M	18	...		20	55.36	...		14	13.7	R
27	...		12	40.33	...		49	20.3	M	21	...		20	55.34	...		14	14.3	R
28	...		12	40.14	...		49	21.4	M	23	...		20	55.33	...		14	14.7	R
31	...		12	40.37	...		49	21.7	M	24	...		20	55.34	...		14	13.5	R
June 6	...		12	40.30	...		49	18.5	R	28	...		20	55.29	...		14	14.1	R
16	...		12	40.29	...		49	19.8	R	29	...		20	55.35	...		14	14.0	R
21	...		12	40.32	...		49	20.9	R	431 25 Bootis ρ									
22	...		12	40.39	...		49	20.7	R	June 15	...	14	26	41.98	...	59	6	19.8	R
										16	...		26	42.08	...		6	20.3	R
										17	...		26	42.08	...		6	19.9	R
										22	...		26	42.05	...		6	19.4	R
										24	...		26	42.09	...		6	20.6	R
										25	...		26	42.06	...		6	19.5	R
										30	...		26	42.05	...		6	20.3	R

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444 <i>Anon.</i>						451 <i>γ Trianguli Australis.</i>					
June 16	9.5	14 51 28.75	...	180 36 19.9	R	July 23	...	15 7 49.54	...	158 14 19.6	R
18	9.6	51 28.73	...	36 19.8	R	25	...	7 49.61	...	14 19.7	R
21	9.3	51 28.69	...	36 19.0	R						
22	9.4	51 28.80	..	36 20.9	R						
445 <i>20 Libræ.</i>						452 <i>R Trianguli Australis.</i>					
May 18	...	14 57 6.34	...	114 48 45.8	M	May 26	7.0	15 9 8.33	...	156 3 28.8	M
20	...	57 6.29	...	48 45.1	M	28	7.0	9 8.40	...	3 29.3	M
23	...	57 6.24	...	48 45.5	M	30	7.0	9 8.41	...	3 31.1	M
27	...	57 6.43	...	48 45.0	M	June 21	8.8	9 8.55	...	3 28.6	R
June 6	...	57 6.20	...	48 45.2	R	22	8.5	9 8.50	...	3 27.1	R
446 <i>42 Bootis β</i>						28	7.3	9 8.61	...	3 26.8	R
May 21	...	14 57 27.69	...	49 8 21.5	M	29	7.2	9 8.64	..	3 26.9	R
28	...	57 27.78	...	8 21.0	M	July 20	8.9	9 8.52	...	3 27.2	R
31	...	57 27.76	...	8 20.6	M	21	8.9	9 8.53	...	3 27.0	R
June 17	...	57 27.71	...	8 20.0	R	22	9.2	9 8.48	...	3 30.3	R
18	...	57 27.77	...	8 20.6	R						
447 <i>T Trianguli Australis, Var.</i>						453 <i>27 Libræ β</i>					
July 31	7.8	14 58 40.04	...	158 15 39.9	R	June 17	...	15 10 36.17	...	98 56 32.6	R
22	8.0	58 40.97	...	15 42.1	R	18	...	10 36.28	...	56 33.1	R
23	8.0	58 41.08	...	15 39.0	R	23	...	10 36.25	...	56 33.1	R
25	9.5	58 41.01	...	15 38.4	R	24	...	10 36.31	...	56 33.4	R
						25	...	10 36.21	...	56 34.4	R
						30	...	10 36.21	...	56 34.2	R
						July 5	...	10 36.22	...	56 33.2	R
448 <i>43 Bootis ψ</i>						454 <i>49 Bootis δ—1st.</i>					
June 16	...	14 59 20.82	...	62 35 14.5	R	May 23	...	15 10 42.33	...	56 14 25.4	M
449 <i>21 Libræ ν¹</i>						25	...	10 42.17	...	14 26.4	M
May 25	...	14 59 59.47	...	105 47 39.8	M	27	...	10 42.21	...	14 24.5	M
30	...	59 59.24	...	47 40.0	M	31	...	10 42.21	...	14 25.8	M
June 7	...	59 59.47	...	47 41.5	R	June 15	...	10 42.21	...	14 24.8	R
450 <i>R. P. L. 111—s.p.</i>						455 <i>13 Ursæ Minoris γ</i>					
Jan. 3	...	15 3 47.59	3	5 35 17.6	M	May 25	...	15 20 55.59	...	17 41 32.0	M
8	...	3 47.04	3	35 18.6	M	27	...	20 55.39	...	44 32.5	M
15	...	3 47.77	3	35 19.7	M	30	...	20 55.82	...	44 34.1	M
						June 6	...	20 55.45	...	44 29.7	R

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		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
456 <i>12 Draconis</i> ι						462 <i>32 Serpentis</i> μ					
May 23	...	15 22 16.88	4	30 36 58.0	M	June 6	...	15 43 24.60	...	93 3 53.9	R
28	...	22 16.86	...	36 59.1	M	15	...	43 24.69	...	3 53.4	R
31	...	22 17.00	...	37 1.6	M	17	...	43 24.74	...	3 54.0	R
June 15	...	22 16.89	...	36 59.0	R	21	...	43 24.68	...	3 52.8	R
17	...	22 17.05	...	36 59.7	R	23	...	43 24.60	...	3 54.5	R
457 γ <i>Lupi</i> .						463 β <i>Trianguli Australis</i> .					
May 26	...	15 27 12.83	...	130 45 56.4	M	June 30	...	15 44 40.51	...	153 3 44.2	R
June 17	...	27 12.79	...	45 53.9	R	July 19	...	44 40.50	...	3 41.1	R
18	...	27 12.87	...	45 53.8	R	26	...	44 40.58	...	3 41.8	R
21	...	27 12.90	...	45 54.1	R	27	...	44 40.42	...	3 41.5	R
25	...	27 12.71	...	45 54.1	R	28	...	44 40.46	...	3 43.2	R
458 <i>38 Libræ</i> γ						464 <i>37 Serpentis</i> ϵ					
June 15	...	15 28 52.23	...	104 23 26.1	R	May 27	...	15 44 52.92	...	85 9 47.7	M
24	...	28 52.07	...	23 25.9	R	June 24	...	44 52.98	...	9 48.8	R
28	...	28 52.33	...	23 26.1	R	25	...	44 53.07	...	9 45.8	R
29	...	28 52.32	...	23 25.9	R	28	...	44 53.07	...	9 45.1	R
30	...	28 52.30	...	23 28.4	R	29	...	44 53.08	...	9 47.7	R
July 16	...	28 52.11	...	23 24.0	R	July 5	...	44 53.10	...	9 47.6	R
459 δ <i>Serpentis</i> —2nd.						11	...	44 53.09	...	9 48.3	R
May 25	...	15 29 7.00	...	79 3 44.2	M	13	...	44 53.08	...	9 46.6	R
27	...	29 6.98	...	3 45.2	M	14	...	44 53.04	...	9 45.8	R
28	...	29 6.84	...	3 46.1	M	20	...	44 53.11	...	9 47.6	R
31	...	29 7.02	...	3 45.6	M	22	...	44 53.04	...	9 46.0	R
June 23	...	29 6.96	...	3 43.0	R	23	...	44 53.05	...	9 47.3	R
460 <i>24 Serpentis</i> α						465 <i>R. P. L. 115.</i>					
May 23	...	15 38 24.31	...	83 11 56.4	M	June 7	...	15 45 43.81	3	4 47 5.3	R
25	...	38 24.40	...	11 55.4	M	16	...	45 43.60	3	47 1.9	R
461 <i>28 Serpentis</i> β						22	...	45 43.31	3	47 0.7	R
May 27	...	15 40 41.75	...	74 12 18.3	M	<i>R. P. L. 115—s.p.</i>					
28	...	40 41.83	...	12 20.0	M	Jan. 26	...	15 45 43.73	3	4 47 4.8	M
30	...	40 41.69	...	12 19.5	M	Feb. 9	...	45 43.31	3	47 0.0	R
31	...	40 41.77	...	12 19.3	M	466 <i>46 Libræ</i> θ					
June 7	...	40 41.64	...	12 20.9	R	May 25	...	15 47 2.87	...	106 22 44.3	M
						28	...	47 2.86	...	22 43.5	M

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467 41 <i>Serpentis</i> γ						473 9 <i>Scorpii</i> ω^1					
May 30	...	15 50 57.26	...	78 56 58.9	M	May 30	...	15 59 50.72	...	110 20 44.4	M
June 6	...	50 57.48	...	56 56.9	R	June 6	...	59 50.59	...	20 43.5	R
15	...	50 57.36	...	56 56.6	R	7	...	59 50.64	...	20 45.8	R
16	...	50 57.44	...	56 57.7	R	15	...	59 50.56	...	20 42.9	R
22	...	50 57.35	...	56 57.0	R	474 R. P. L. 116—s.p.					
468 6 <i>Scorpii</i> π						Feb. 4	...	16 1 12.62	3	4 21 33.1	R
June 17	...	15 51 39.20	...	115 46 11.9	R	475 δ <i>Trianguli Australis</i> .					
21	...	51 39.27	...	46 12.8	R	June 7	...	16 4 37.05	...	153 22 51.0	R
23	...	51 39.33	...	46 12.4	R	29	...	4 37.02	...	22 48.6	R
25	...	51 39.32	...	46 12.4	R	July 19	...	4 37.02	...	22 48.4	R
29	...	51 39.34	...	46 12.2	R	26	...	4 37.10	...	22 49.0	R
469 7 <i>Scorpii</i> δ						476 1 <i>Ophiuchi</i> δ					
June 24	...	15 53 17.84	...	112 16 53.3	R	June 6	...	16 8 6.59	...	93 23 10.3	R
28	...	53 17.76	...	16 53.1	R	15	...	8 6.56	...	23 9.4	R
30	...	53 17.71	...	16 53.3	R	17	...	8 6.59	...	23 10.2	R
July 14	...	53 17.82	...	16 53.6	R	July 11	...	8 6.53	...	23 11.0	R
22	...	53 17.90	...	16 55.3	R	13	...	8 6.55	...	23 8.9	R
470 <i>Lacaille</i> 6612.						14	...	8 6.52	...	23 12.1	R
July 26	9.0	15 53 37.99	...	150 9 49.7	R	16	...	8 6.53	...	23 9.4	R
471 8 <i>Scorpii</i> β^1						20	...	8 6.55	...	23 10.4	R
June 28	...	15 58 31.11	...	109 28 41.0	R	27	...	8 6.55	...	23 11.5	R
29	...	58 31.09	...	28 41.5	R	477 γ^1 <i>Normæ</i> .					
30	...	58 31.11	...	28 40.5	R	June 21	...	16 8 6.60	...	139 46 5.7	R
July 5	...	58 31.10	...	28 41.0	R	22	...	8 6.61	...	46 5.0	R
472 13 <i>Draconis</i> θ						478 <i>Anon.</i>					
June 16	...	15 59 39.64	...	81 6 57.3	R	July 19	10.0	16 10 43.56	...	112 36 9.3	R
17	...	59 39.65	...	6 58.0	R	23	10.0	10 43.67	...	36 10.1	R
22	...	59 39.61	...	6 57.7	R	26	10.0	10 43.68	...	36 9.9	R
July 23	...	59 39.53	...	6 58.4	R	479 γ^2 <i>Normæ</i> .					
27	...	59 39.60	...	6 58.8	R	June 7	...	16 10 56.39	...	139 51 43.8	R
						23	...	10 56.35	...	51 42.2	R
						24	...	10 56.30	...	51 41.6	R
						28	...	10 56.37	...	51 40.8	R

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480 <i>2 Ophiuchi ε</i>						488 <i>25 Herculis.</i>					
June 29	...	16 13 1'66	5	94 24 4'0	R	June 7	...	16 21 9'68	5	52 20 4'8	R
30	...	12 1'56	...	24 4'9	R	489 <i>Radcliffe 3553.</i>					
July 5	...	12 1'61	...	24 7'2	R	June 17	...	16 21 49'13	...	34 31 25'2	R
28	...	12 1'41	...	24 7'0	R	July 5	...	21 49'12	...	31 27'7	R
29	...	12 1'47	...	24 7'1	R	19	...	21 49'00	...	31 25'8	R
481 <i>19 Ursæ Minoris.</i>						25	...	21 48'81	...	31 25'4	R
July 27	...	16 14 13'65	5	13 49 23'3	R	29	...	21 48'96	...	31 25'6	R
30	...	14 13'56	...	49 23'4	R	490 <i>21 Scorpii α, Antares.</i>					
482 <i>O. A. S. 15571.</i>						June 16	...	16 22 6'71	...	116 9 58'8	R
June 24	7'0	16 16 3'98	...	106 44 13'4	R	July 22	...	22 6'72	...	9 59'3	R
28	7'0	16 4'08	4	44 13'4	R	26	...	22 6'75	...	9 57'9	R
July 14	7'0	16 3'94	...	44 13'8	R	491 <i>θ Trianguli Australis.</i>					
483 <i>22 Herculis γ</i>						June 15	...	16 24 17'98	...	155 14 26'9	R
June 21	...	16 16 40'20	...	70 33 57'3	R	22	...	24 18'08	...	14 28'7	R
July 19	...	16 40'14	...	33 57'6	R	28	...	24 17'98	...	14 26'5	R
20	...	16 40'15	...	33 58'3	R	July 23	...	24 18'16	...	14 28'8	R
23	...	16 40'22	...	33 57'8	R	Aug. 12	...	24 18'15	...	14 27'2	M
29	...	16 40'25	...	33 58'2	R	492 <i>9 Ophiuchi ω</i>					
484 <i>ι Trianguli Australis.</i>						June 21	...	16 25 5'13	...	111 12 36'8	R
June 16	...	16 16 54'71	4	153 47 4'3	R	25	...	25 5'07	...	12 38'6	R
22	...	16 54'78	...	47 6'6	R	July 11	...	25 5'03	...	12 38'1	R
23	...	16 54'77	...	47 7'3	R	13	...	25 5'01	...	12 36'3	R
30	...	16 54'76	...	47 6'1	R	493 <i>27 Herculis β</i>					
485 <i>4 Ophiuchi ψ</i>						June 24	...	16 25 6'12	...	68 15 0'4	R
Aug. 12	...	16 17 8'38	...	109 45 26'5	M	July 14	...	25 6'21	...	15 0'1	R
486 <i>21 Coronæ Borealis ν²</i>						16	...	25 6'22	...	15 0'0	R
July 28	...	16 18 0'03	...	56 1 8'4	R	27	...	25 6'12	...	14 59'4	R
487 <i>21 Ursæ Minoris η</i>						494 <i>23 Scorpii τ</i>					
July 30	...	16 20 59'45	...	13 58 14'8	R	June 23	...	16 28 28'50	...	117 58 2'6	R
						29	...	28 28'50	...	58 2'8	R
						30	...	28 28'45	...	58 3'4	R
						July 5	...	28 28'61	...	58 4'1	R

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h. m. s.				° ' "				h. m. s.		° ' "	
495 13 <i>Ophiuchi</i> ζ						501 52 <i>Herculis</i> .					
June 21	...	16 30 36.43	...	100 19 30.2	R	June 15	...	16 45 45.40	...	43 48 29.6	R
July 11	...	30 36.41	...	19 31.0	R	16	...	45 45.42	...	48 30.5	R
13	...	30 36.35	...	19 29.0	R	502 ζ ² <i>Scorpii</i> .					
14	...	30 36.38	...	19 28.7	R	June 24	...	16 46 12.68	...	133 9 17.7	R
16	...	30 36.40	...	19 29.8	R	Aug. 17	...	46 12.67	...	9 18.7	M
19	...	30 36.40	...	19 29.1	R	503 <i>Lacaille</i> 6989.					
22	...	30 36.38	...	19 28.6	R	June 21	...	16 46 48.09	...	159 4 41.1	R
28	...	30 36.34	...	19 28.0	R	22	...	46 48.21	...	4 39.6	R
Aug. 11	...	30 36.47	...	19 30.8	M	29	...	46 48.17	...	4 37.3	R
15	...	30 36.31	...	19 31.0	M	July 25	...	46 48.16	...	4 40.7	R
496 <i>Lacaille</i> 6881.						504 <i>Taylor</i> 7821.					
June 22	...	16 31 20.27	...	157 11 52.8	R	July 29	8.5	16 47 27.35	4	129 18 34.4	R
July 25	...	31 20.34	5	11 50.8	R	30	8.0	47 27.25	...	18 35.3	R
497 40 <i>Herculis</i> ζ						505 53 <i>Herculis</i> .					
June 29	...	16 36 47.88	...	58 10 49.1	R	June 23	...	16 48 27.07	...	58 6 1.9	R
July 18	...	36 47.99	...	10 50.5	R	28	...	48 27.21	...	6 4.1	R
23	...	36 48.05	...	10 49.8	R	July 14	...	48 27.07	4	6 2.1	R
25	...	36 48.04	...	10 50.7	R	506 ζ <i>Aræ</i> .					
498 44 <i>Herculis</i> η						July 13	...	16 48 46.57	...	145 47 58.5	R
June 21	...	16 38 49.04	...	50 51 1.5	R	28	...	48 46.34	...	47 59.3	R
22	...	38 49.22	...	51 1.6	R	507 27 <i>Ophiuchi</i> κ					
24	...	38 48.90	...	51 1.6	R	June 22	...	16 52 2.13	...	80 26 18.2	R
July 5	...	38 48.97	...	51 8.3	R	July 5	...	52 1.99	...	26 20.3	R
13	...	38 49.06	...	51 1.7	R	18	...	52 2.06	...	26 18.7	R
499 26 <i>Scorpii</i> ε						19	...	52 2.08	...	26 19.0	R
June 23	...	16 42 27.34	...	124 4 30.5	R	25	...	52 2.06	...	26 18.4	R
28	...	42 27.26	...	4 29.4	R	26	...	52 2.06	...	26 18.9	R
29	...	42 27.24	...	4 30.5	R	27	...	52 2.05	...	26 18.5	R
July 11	...	42 27.37	5	4 34.3	R	500 μ ¹ <i>Scorpii</i> .					
14	...	42 27.35	...	4 31.9	R	July 19	...	16 43 48.61	...	127 50 28.4	R
500 μ ¹ <i>Scorpii</i> .						22	...	43 48.45	...	50 29.7	R
July 19	...	16 43 48.61	...	127 50 28.4	R	23	...	43 48.42	...	50 28.7	R
22	...	43 48.45	...	50 29.7	R	26	...	43 48.60	...	50 28.3	R
23	...	43 48.42	...	50 28.7	R	27	...	43 48.56	...	50 26.7	R

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Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.
508 <i>58 Herculis ε</i>						512 <i>22 Draconis ζ</i>					
June 21	...	16 55 44.13	...	58 53 49.7	R	June 22	...	17 8 26.52	...	24 8 17.7	R
23	...	55 43.92	...	53 48.8	R	23	...	8 26.49	...	8 18.1	R
24	...	55 44.01	...	53 49.5	R	29	...	8 26.43	...	8 17.9	R
28	...	55 43.93	...	53 49.2	R	July 5	...	8 26.43	...	8 21.0	R
July 11	...	55 44.14	...	53 52.5	R	19	...	8 26.42	...	8 18.1	R
509 <i>22 Ursæ Minoris ε</i>						513 <i>67 Herculis π</i>					
June 29	...	16 58 13.73	3	7 46 7.1	R	June 24	...	17 10 54.04	...	53 3 19.8	R
July 19	...	58 13.37	3	46 8.0	R	28	...	10 53.93	...	3 21.3	R
26	...	58 11.29	5	46 6.4	R	July 11	...	10 54.01	...	3 23.1	R
Aug. 15	...	58 12.34	7	46 8.6	M	13	...	10 54.03	...	3 20.4	R
23	...	58 12.60	7	46 4.9	M	16	...	10 53.88	...	3 19.2	R
<i>22 Ursæ Minoris ε—s.p.</i>						514 <i>42 Ophiuchi θ</i>					
Feb. 1	...	16 58 13.82	3	7 46 7.0	R	July 30	...	17 14 42.05	...	114 53 44.8	R
510 <i>35 Ophiuchi η</i>						Aug. 12	...	14 42.05	...	53 46.4	M
June 23	...	17 3 33.23	...	105 34 34.7	R	16	...	14 42.08	...	53 45.5	M
28	...	3 33.23	...	34 33.0	R	17	...	14 42.02	...	53 44.2	M
July 16	...	3 33.16	...	34 31.9	R	26	...	14 42.07	...	53 46.9	M
18	...	3 33.26	...	34 33.1	R	27	...	14 42.05	...	53 46.2	M
22	...	3 33.23	...	34 34.3	R	515 <i>γ Aræ.</i>					
23	...	3 33.19	...	34 32.6	R	July 23	...	17 15 22.80	...	146 15 47.4	R
25	...	3 33.25	...	34 32.1	R	27	...	15 22.90	...	15 46.7	R
26	...	3 33.23	...	34 32.2	R	Aug. 22	...	15 22.72	...	15 47.1	M
27	...	3 33.19	...	34 32.8	R	23	...	15 22.87	...	15 47.2	M
28	...	3 33.21	...	34 32.1	R	24	...	15 22.94	...	15 48.6	M
29	...	3 33.17	...	34 33.0	R	516 <i>β Aræ.</i>					
30	...	3 33.21	...	34 32.3	R	July 18	...	17 15 24.53	4	145 24 52.1	R
Aug. 10	...	3 33.13	...	34 34.0	M	26	...	15 24.55	...	24 40.2	R
11	...	3 33.16	...	34 35.4	M	28	...	15 24.61	...	24 48.9	R
511 <i>η Scorpæ.</i>						29	...	15 24.57	...	24 49.0	R
June 21	...	17 3 37.90	...	133 4 47.8	R	Aug. 25	...	15 24.68	...	24 49.9	M
22	...	3 37.97	...	4 47.1	R	517 <i>κ¹ Aræ.</i>					
24	...	3 37.92	...	4 47.0	R	June 28	...	17 16 43.49	...	140 31 20.2	R
29	...	3 37.82	...	4 45.5	R	29	...	16 43.45	...	31 20.3	R
July 11	...	3 37.80	...	4 43.8	R	July 5	...	16 43.54	...	31 22.8	R
						13	...	16 43.41	...	31 20.8	R

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518	49 Ophiuchi σ					526	35 Scorpii λ				
July 28	...	17 20 36.59	...	85 45 16.4	R	Aug. 17	...	17 25 31.76	...	127 0 54.1	M
519	Anon.					527	Lacaille 7346.				
June 28	9.0	17 22 15.70	...	130 44 28.5	R	July 14	7.0	17 27 58.88	5	134 47 57.0	R
520	Anon.					29	7.0	27 58.89	...	47 56.0	R
June 29	9.2	17 22 26.92	...	131 55 50.2	R	Aug. 31	...	27 58.90	...	47 57.1	M
521	34 Scorpii ν					Sep. 3	...	27 58.73	...	47 56.3	M
July 5	...	17 22 40.40	...	127 11 58.4	R	528	Taylor 8122.				
27	...	22 40.47	...	11 56.8	R	June 29	...	17 28 21.23	...	128 32 56.3	R
522	Lacaille 7308 (Taylor 8080).					July 5	...	28 21.03	...	32 59.9	R
July 13	...	17 23 0.23	...	135 56 33.7	R	529	Brisbane 6132.				
22	...	23 0.43	...	56 33.8	R	July 13	8.0	17 28 29.48	...	135 4 42.0	R
29	...	23 0.25	...	56 31.3	R	26	8.4	28 29.32	...	4 40.6	R
30	...	23 0.27	...	56 31.3	R	30	8.0	28 29.53	...	4 43.0	R
Aug. 16	...	23 0.37	...	56 35.1	M	Aug. 30	...	28 29.36	...	4 41.9	M
523	Taylor 8082.					530	55 Ophiuchi α				
Aug. 22	7.5	17 23 7.57	...	135 59 58.8	M	Aug. 10	...	17 29 24.55	...	77 21 7.7	M
23	7.5	23 7.55	...	59 58.5	M	531	Brisbane 6140.				
24	...	23 7.69	...	59 53.1	M	July 23	8.0	17 29 47.04	...	134 48 2.4	R
25	7.5	23 7.60	...	59 52.5	M	28	8.0	29 47.67	5	48 1.6	R
26	7.5	23 7.52	...	59 53.4	M	Aug. 23	...	29 47.43	...	48 4.5	M
524	Lacaille 7320.					25	8.5	29 47.62	...	48 3.2	M
Aug. 29	7.5	17 24 27.88	...	135 25 16.5	M	27	...	29 47.52	...	48 2.0	M
30	...	24 27.96	...	25 16.8	M	532	Brisbane 6142.				
31	...	24 28.04	...	25 16.4	M	July 22	8.0	17 30 5.95	...	135 40 50.8	R
Sep. 3	...	24 27.89	...	25 16.9	M	27	7.8	30 6.04	...	40 52.0	R
525	Lacaille 7329.					Aug. 24	8.0	30 6.12	...	40 52.5	M
July 16	7.0	17 25 27.40	...	134 55 8.5	R	26	8.0	30 6.16	...	40 53.4	M
23	7.0	25 27.52	...	55 8.1	R	29	8.0	30 6.01	...	40 51.5	M
28	7.0	25 27.67	...	55 7.1	R	533	55 Serpentis ξ				
						June 28	...	17 30 46.45	...	105 19 18.1	R
						July 11	...	30 46.33	...	19 20.7	R

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534 <i>Brisbane 6151.</i>						541 <i>86 Herculis μ</i>					
July 16	8.0	17 31 55.58	...	184 36 12.4	R	July 11	...	17 41 48.00	...	62 12 33.0	R
29	8.0	31 55.58	...	36 12.9	R	13	...	41 48.03	...	12 31.2	R
535 <i>Brisbane 6160.</i>						26	...	41 48.00	...	12 29.8	R
July 14	8.0	17 33 11.36	5	134 43 7.6	R	542 <i>π Pavonis.</i>					
26	8.4	33 11.54	...	43 5.8	R	July 5	...	17 57 7.31	...	153 40 15.5	R
30	8.0	33 11.40	...	43 4.6	R	543 <i>W Sagittarii γ^1, Var. 6.</i>					
Aug. 22	8.5	38 11.33	...	43 5.7	M	July 19	...	17 57 25.16	...	119 34 59.0	R
536 <i>Taylor 8168.</i>						23	...	57 25.21	...	35 1.0	R
Aug. 23	7.5	17 34 47.57	...	135 54 38.0	M	26	...	57 25.30	...	35 0.6	R
25	7.5	34 47.76	...	54 38.2	M	27	...	57 25.21	...	35 0.5	R
27	...	34 47.68	...	54 38.5	M	28	...	57 25.23	...	35 0.7	R
30	...	34 47.53	...	54 38.5	M	544 <i>72 Ophiuchi.</i>					
31	...	34 47.60	...	54 38.7	M	July 20	...	18 1 42.45	...	80 27 5.6	R
537 <i>Lacaille 7400.</i>						30	...	1 42.42	...	27 5.8	R
Aug. 24	7.5	17 35 53.73	...	135 59 3.2	M	Aug. 11	...	1 42.36	...	27 7.7	M
26	7.5	35 53.76	...	59 4.8	M	13	...	1 42.39	...	27 9.0	M
29	7.5	35 53.68	...	59 4.3	M	16	...	1 42.46	...	27 4.8	M
Sep. 3	...	35 53.76	...	59 3.7	M	17	...	1 42.39	...	27 5.5	M
538 <i>60 Ophiuchi β</i>						19	...	1 42.50	...	27 7.0	M
June 29	...	17 37 35.75	...	85 22 52.4	R	23	...	1 42.47	...	27 6.3	M
July 19	...	37 35.64	...	22 52.3	R	24	...	1 42.48	...	27 7.6	M
Aug. 10	...	37 35.65	...	22 54.7	M	25	...	1 42.42	...	27 7.8	M
12	...	37 35.66	...	22 53.3	M	26	...	1 42.41	...	27 7.7	M
17	...	37 35.64	...	22 53.7	M	27	...	1 42.35	...	27 7.2	M
539 <i>ϵ^1 Scorpii.</i>						29	...	1 42.46	...	27 7.6	M
June 28	...	17 39 15.77	...	130 4 40.7	R	30	...	1 42.48	...	27 7.5	M
July 5	...	39 15.67	...	4 44.3	R	31	...	1 42.49	...	27 7.3	M
16	...	39 15.48	...	4 41.5	R	Sep. 2	...	1 42.50	...	27 7.5	M
22	...	39 15.70	...	4 42.7	R	3	...	1 42.41	...	27 6.2	M
27	...	39 15.73	...	4 42.5	R	13	...	1 42.39	...	27 6.7	M
540 <i>Anon.</i>						545 <i>13 Sagittarii μ^1</i>					
July 23	8.0	17 40 53.82	...	127 15 3.2	R	July 27	...	18 6 38.67	...	111 5 17.2	R
29	8.0	40 53.31	...	15 2.0	R	28	...	6 38.71	...	5 17.6	R
30	8.2	40 53.36	...	15 3.5	R						
Aug. 22	8.5	40 53.28	...	15 4.8	M						

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546	23 Ursæ Minoris δ					Aug. 29	...	18 20 37.85	...	115 29 7.4	M
Aug. 29	...	18 10 43.18	8	8 28 27.4	M	Sep. 2	...	20 37.51	...	29 8.7	M
547	19 Sagittarii δ					8	...	20 37.55	...	29 8.6	M
July 29	...	18 18 22.44	...	119 52 37.6	B	5	...	20 37.47	...	29 7.6	M
Aug. 11	...	18 22.39	...	52 39.5	M	12	...	20 37.50	...	29 8.0	M
13	...	18 22.48	...	52 40.1	M	552	Lalande 34128.				
16	...	13 22.36	...	52 38.8	M	Aug. 30	6.0	18 22 10.15	...	83 52 39.2	M
17	...	13 22.31	...	52 38.4	M	31	...	22 10.09	...	52 38.9	M
548	24 Ursæ Minoris—s.p.					Sep. 16	...	22 10.12	...	52 40.2	M
Feb. 15	...	18 14 51.33	8	8 0 42.6	B	17	...	22 10.19	...	52 40.3	M
549	58 Serpentis η					553	3 Lyræ α, Vega.				
Aug. 15	...	18 15 9.24	...	92 55 46.2	M	Aug. 13	...	18 32 54.48	...	51 19 34.8	M
22	...	15 9.21	...	55 42.8	M	26	...	32 54.44	...	19 33.2	M
23	...	15 9.10	...	55 44.6	M	Sep. 5	...	32 54.65	...	19 34.6	M
27	...	15 9.19	...	55 42.4	M	554	10 Lyræ β, Var. 1.				
30	...	15 9.20	...	55 43.9	M	Aug. 17	...	18 45 41.09	...	56 46 27.4	M
31	...	15 9.15	...	55 43.5	M	19	...	45 41.07	...	46 29.4	M
Sep. 2	...	15 9.09	...	55 44.4	M	20	...	45 41.14	...	46 28.7	M
5	...	15 9.08	...	55 43.0	M	22	...	45 41.05	...	46 27.7	M
14	...	15 9.07	...	55 43.6	M	24	...	45 41.01	...	46 27.8	M
15	...	15 9.12	...	55 43.1	M	25	...	45 41.05	...	46 29.8	M
16	...	15 9.18	...	55 46.0	M	555	34 Sagittarii σ				
17	...	15 9.18	...	55 45.5	M	July 28	...	18 47 53.18	...	116 26 35.4	B
550	20 Sagittarii ϵ					Aug. 11	...	47 52.97	...	26 37.8	M
Sep. 3	...	18 16 16.33	...	124 26 21.7	M	13	...	47 53.10	...	26 36.6	M
551	22 Sagittarii λ					15	...	47 52.99	...	26 37.3	M
Aug. 13	...	18 20 37.60	...	115 29 10.6	M	16	...	47 53.10	...	26 37.2	M
15	...	20 37.47	...	29 9.7	M	556	R.P.L. 131—s.p.				
16	...	20 37.50	...	29 8.1	M	Feb. 25	...	18 53 39.71	3	3 26 38.3	B
19	...	20 37.60	...	29 9.1	M	28	...	53 39.05	8	26 40.8	B
20	...	20 37.68	...	29 8.7	M	Mar. 7	...	53 39.13	3	26 38.4	M
22	...	20 37.49	...	29 7.5	M	14	...	53 38.83	3	26 39.0	M
23	...	20 37.53	...	29 8.9	M	19	...	53 39.35	3	26 39.0	M
24	...	20 37.55	...	29 9.3	M	24	...	53 39.68	8	26 40.0	M
25	...	20 37.60	...	29 9.1	M						

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557 13 <i>Aquilæ</i> ϵ						562 41 <i>Sagittarii</i> π					
July 29	...	18 54 13.17	...	75 5 31.3	R	July 28	...	19 2 41.11	...	111 12 39.8	R
Aug. 20	...	54 13.10	...	5 31.3	M	Aug. 11	...	2 40.90	...	12 43.1	M
29	...	54 18.28	...	5 32.3	M	13	...	2 41.11	...	12 43.9	M
30	...	54 18.18	...	5 32.4	M	17	...	2 41.19	...	12 40.6	M
31	...	54 13.08	...	5 32.2	M	23	...	2 41.13	...	12 41.4	M
Sep. 12	...	54 13.13	...	5 32.1	M	24	...	2 41.17	...	12 40.5	M
14	...	54 13.22	...	5 32.5	M	26	...	2 41.14	...	12 42.8	M
15	...	54 13.29	...	5 32.8	M	30	...	2 41.10	...	12 43.6	M
16	...	54 13.10	...	5 32.4	M	563 <i>Anon.</i>					
17	...	54 13.22	...	5 34.4	M	Aug. 25	8.5	19 4 24.02	...	139 21 10.3	M
20	...	54 13.28	...	5 30.2	M	29	8.5	4 23.87	...	21 7.7	M
21	...	54 13.35	...	5 34.2	M	31	...	4 23.90	...	21 8.8	M
23	...	54 13.31	...	5 35.5	M	564 25 <i>Aquilæ</i> ω					
24	...	54 13.22	...	5 31.3	M	Aug. 30	...	19 12 18.70	...	78 37 5.9	M
558 14 <i>Lyræ</i> γ						31	...	12 18.79	...	37 6.3	M
July 28	...	18 54 29.41	...	57 28 18.9	R	Sep. 15	...	12 13.72	...	37 3.8	M
Aug. 16	...	54 29.28	...	28 18.3	M	565 57 <i>Draconis</i> δ					
22	...	54 29.41	...	28 15.1	M	July 29	...	19 12 31.12	...	22 33 40.4	R
23	...	54 29.54	...	28 16.8	M	Aug. 20	...	12 31.32	...	32 48.0	M
24	...	54 29.45	...	28 18.5	M	22	...	12 31.34	...	32 49.6	M
559 38 <i>Sagittarii</i> ζ						25	...	12 31.36	...	32 51.4	M
Aug. 11	...	18 55 2.18	...	120 2 58.4	M	29	...	12 31.06	...	32 50.5	M
13	...	55 2.30	...	2 56.7	M	566 β^1 <i>Sagittarii</i> .					
15	...	55 2.38	...	2 58.0	M	Aug. 13	...	19 14 4.66	...	134 40 52.2	M
17	...	55 2.35	...	2 55.0	M	15	...	14 4.64	...	40 51.1	M
19	...	55 2.46	...	2 56.3	M	17	...	14 4.62	...	40 50.1	M
560 16 <i>Aquilæ</i> λ						24	...	14 4.82	...	40 50.6	M
July 29	...	18 59 55.92	...	95 3 32.3	R	26	...	14 4.75	...	40 49.8	M
Aug. 15	...	59 56.04	...	3 34.2	M	567 30 <i>Aquilæ</i> δ					
16	...	59 56.01	...	3 34.8	M	Aug. 22	...	19 19 29.88	...	87 7 16.2	M
20	...	59 56.08	...	3 33.6	M	24	...	19 29.87	...	7 17.7	M
22	...	59 56.08	...	3 33.5	M	25	...	19 29.82	...	7 18.5	M
561 17 <i>Aquilæ</i> ξ						26	...	19 29.90	...	7 19.1	M
Sep. 12	...	18 59 56.47	...	76 18 43.0	M	Sep. 3	...	19 29.87	...	7 17.5	M

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568 <i>6 Cygni β—1st.</i>						574 <i>60 Aquilæ β</i>					
Aug. 13	...	19 25 55.08	...	62 17 21.9	M	Sep. 24	...	19 49 28.12	...	83 53 16.7	M
15	...	25 55.10	...	17 22.5	M	26	...	49 27.98	...	53 18.2	M
17	...	25 55.11	...	17 22.3	M	575 <i>65 Aquilæ θ</i>					
20	...	25 54.86	...	17 22.4	M	Aug. 13	...	20 5 9.88	...	91 10 24.0	M
22	...	25 55.03	...	17 19.8	M	15	...	5 9.83	...	10 25.8	M
569 <i>52 Sagittarii h^a.</i>						16	...	5 9.86	...	10 25.8	M
Aug. 16	...	19 29 27.79	...	115 8 39.0	M	17	...	5 9.93	...	10 25.7	M
29	...	29 27.86	...	8 40.0	M	24	...	5 9.85	...	10 25.9	M
Sep. 16	...	29 27.98	...	8 39.6	M	25	...	5 9.91	...	10 27.2	M
17	...	29 27.90	...	8 39.7	M	26	...	5 9.84	...	10 25.5	M
20	...	29 27.78	...	8 39.4	M	27	...	5 9.85	...	10 24.1	M
21	...	29 27.73	...	8 37.6	M	29	...	5 9.92	...	10 25.2	M
23	...	29 27.82	...	8 37.7	M	31	...	5 9.93	...	10 26.8	M
24	...	29 27.79	...	8 37.6	M	Sep. 26	...	5 9.80	...	10 26.1	M
570 <i>50 Aquilæ γ</i>						28	...	5 9.97	...	10 25.1	M
Sep. 13	...	19 40 36.10	...	79 40 32.0	M	29	...	5 9.97	...	10 26.3	M
21	...	40 36.03	...	40 32.3	M	30	...	5 9.88	...	10 27.7	M
23	...	40 36.05	...	40 32.9	M	Oct. 1	...	5 9.90	...	10 25.3	R
571 <i>Taylor 9125.</i>						3	...	5 9.90	...	10 22.6	R
Aug. 15	6.0	19 44 18.01	...	56 51 33.7	M	15	...	5 9.75	...	10 26.2	R
16	...	44 18.10	...	51 32.9	M	576 <i>6 Capricorni α³</i>					
22	...	44 18.22	...	51 34.6	M	Sep. 17	...	20 11 26.91	...	102 54 45.3	M
23	...	44 18.21	...	51 35.4	M	577 <i>Lacaille 8404.</i>					
24	...	44 18.13	...	51 34.6	M	Sep. 26	7.0	20 12 36.74	...	124 57 19.8	M
572 <i>Lacaille 8249.</i>						28	7.0	12 36.82	...	57 19.7	M
Aug. 25	8.5	19 45 9.57	...	122 16 48.5	M	29	7.0	12 36.82	...	57 22.7	M
26	8.0	45 9.72	...	16 48.6	M	30	7.0	12 36.74	...	57 22.6	M
29	8.0	45 9.51	...	16 47.6	M	Oct. 3	7.0	12 36.81	...	57 19.5	R
573 <i>59 Aquilæ ξ</i>						578 <i>37 Cygni γ</i>					
Aug. 11	...	19 48 28.57	...	81 50 45.0	M	Aug. 15	...	20 17 57.81	...	50 7 25.4	M
13	...	48 28.79	...	50 44.6	M	16	...	17 57.23	...	7 23.9	M
17	...	48 28.68	...	50 43.7	M	17	...	17 57.23	...	7 23.9	M
24	...	48 28.83	...	50 42.8	M	22	...	17 57.24	...	7 25.5	M
						24	...	17 57.37	...	7 24.2	M

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.
Oct. 14	...	20 41 13.97	...	99 55 49.9	R	596 <i>Anon.</i>					
15	...	41 13.90	...	55 50.1	R	Oct. 12	8.5	20 52 26.43	...	151 16 15.6	R
17	...	41 13.91	...	55 49.8	R	13	8.5	52 26.28	...	16 13.0	R
18	...	41 13.90	...	55 52.1	R	14	9.0	52 26.34	...	16 13.5	R
19	...	41 13.91	...	55 51.2	R	17	8.0	52 26.55	...	16 13.8	R
20	...	41 13.95	...	55 52.2	R	18	8.0	52 26.29	...	16 14.5	R
22	...	41 13.89	...	55 51.9	R	597 <i>Lacaille 8656 (Taylor 9734).</i>					
590 <i>53 Cygni ε</i>						Sep. 28	7.0	20 58 5.45	...	150 27 58.0	M
Sep. 15	...	20 41 23.56	...	55 28 26.8	M	29	7.0	58 5.31	...	28 2.8	M
17	...	41 23.48	...	28 26.8	M	Oct. 7	7.0	58 5.32	...	27 58.7	R
21	...	41 23.75	...	28 27.2	M	8	7.0	58 5.51	...	27 58.3	R
23	...	41 23.72	...	28 26.3	M	10	7.0	58 5.51	...	27 58.3	R
591 <i>Radcliffe 4950.</i>						598 <i>Lacaille 8654.</i>					
Aug. 29	...	20 42 28.77	...	32 50 50.6	M	Oct. 15	...	20 58 38.26	...	154 24 19.6	R
592 <i>3 Cephei η</i>						17	...	58 38.41	...	24 17.3	R
Sep. 16	...	20 42 51.85	...	28 37 20.4	M	19	...	58 38.39	...	24 20.3	R
24	...	42 51.83	...	37 21.9	M	21	...	58 38.39	...	24 22.0	R
Oct. 10	...	42 51.73	...	37 23.4	R	22	...	58 38.32	...	24 19.7	R
11	...	42 51.69	...	37 23.8	R	599 <i>23 Capricorni θ</i>					
12	...	42 51.94	...	37 23.2	R	Sep. 16	...	20 59 15.22	...	107 42 18.8	M
593 <i>Anon.</i>						23	...	59 15.28	...	42 17.5	M
Sep. 26	7.5	20 47 44.26	...	135 1 38.2	M	24	...	59 15.24	...	42 18.2	M
28	7.5	47 44.16	...	1 38.9	M	26	...	59 15.35	...	42 19.3	M
29	7.5	47 44.16	...	1 40.2	M	27	...	59 15.33	...	42 17.5	M
Oct. 1	7.5	47 44.39	5	1 39.1	R	30	...	59 15.21	...	42 21.0	M
5	7.5	47 44.12	...	1 37.7	R	Oct. 1	...	59 15.37	...	42 18.6	R
594 <i>32 Vulpeculæ.</i>						600 <i>24 Capricorni A.</i>					
Sep. 15	...	20 49 29.21	...	62 23 38.4	M	Sep. 17	...	21 0 9.71	...	115 28 46.5	M
21	...	49 29.29	...	23 35.7	M	21	...	0 9.84	...	28 50.5	M
595 <i>Taylor 9685.</i>						601 <i>Taylor 9765.</i>					
Oct. 20	6.5	20 51 52.98	...	141 43 54.9	R	Oct. 11	7.0	21 1 11.14	...	149 53 15.6	R
21	6.5	51 53.03	...	43 55.3	R	13	7.0	1 11.23	...	53 15.0	R
24	6.5	51 53.02	...	43 54.7	R	14	6.0	1 11.12	...	53 16.0	R
25	6.5	51 53.06	...	43 54.1	R	18	6.7	1 11.29	...	53 19.0	R
26	6.5	51 52.95	...	43 55.4	R	20	6.5	1 11.32	...	53 16.4	R

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881.			No. of Wires.	Mean Polar Distance 1881.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881.			No. of Wires.	Mean Polar Distance 1881.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
602 <i>61 Cygni — 1st.</i>										609 <i>γ Pavonis.</i>									
Oct. 26	...	21	1	33.58	...	51	50	11.9	R	Oct. 15	...	21	16	34.88	...	155	54	13.8	R
28	...		1	33.58	...		50	11.9	R	17	...		16	34.98	...		54	11.6	R
603 <i>61 Cygni — 2nd.</i>										20 ... 16 35.00 ... 54 13.8 R									
Oct. 27	...	21	1	35.02	...	51	50	21.8	R	24	...		16	34.96	...		54	15.6	R
29	...		1	35.00	...		50	22.6	R	26	...		16	35.04	...		54	14.4	R
604 <i>Lacaille 8730.</i>										610 <i>Anon.</i>									
Oct. 20	7.5	21	7	46.74	...	145	21	0.4	R	Oct. 8	8.5	21	18	27.03	...	151	22	29.4	R
22	7.5		7	46.59	...		21	2.0	R	10	8.5		18	27.08	...		22	29.2	R
24	7.5		7	46.70	...		20	59.7	R	11	9.0		18	27.11	...		22	29.8	R
26	7.5		7	46.75	...		21	3.0	R	12	9.0		18	27.09	...		22	29.5	R
28	7.5		7	46.68	...		21	1.9	R	13	9.0		18	27.00	...		22	28.4	R
605 <i>64 Cygni ζ</i>										611 <i>Anon.</i>									
Sep. 3	...	21	7	52.23	...	60	15	38.4	M	Sep. 27	7.0	21	18	30.74	...	134	9	42.5	M
Oct. 1	...		7	52.24	...		15	40.0	R	28	7.0		18	30.50	...		9	43.7	M
3	...		7	52.17	...		15	36.9	R	29	7.0		18	30.65	...		9	48.5	M
4	...		7	52.27	...		15	37.6	R	30	...		18	30.64	...		9	44.1	M
5	...		7	52.19	...		15	38.0	R	Oct. 7	8.0		18	30.55	...		9	42.4	R
19	...		7	52.27	...		15	39.7	R	612 <i>Anon.</i>									
606 <i>Lacaille 8728.</i>										Oct. 18	8.0	21	18	49.54	...	149	52	36.9	R
Sep. 26	8.0	21	8	23.40	...	151	28	53.0	M	19	8.0		18	49.68	...		52	37.2	R
28	8.0		8	23.23	...		28	50.3	M	21	8.0		18	49.07	...		52	38.8	R
29	8.0		8	23.28	...		28	52.1	M	22	8.0		18	49.70	...		52	36.0	R
Oct. 10	8.0		8	23.48	...		28	49.7	R	25	8.0		18	49.61	...		52	38.1	R
11	8.0		8	23.50	...		28	49.8	R	613 <i>Taylor 9965.</i>									
607 <i>Anon.</i>										Sep. 26	7.5	21	24	4.38	...	150	13	23.8	M
Oct. 18	8.0	21	9	17.91	...	153	32	46.9	R	28	7.5		24	4.35	...		13	23.7	M
21	8.0		9	18.09	...		32	45.6	R	29	7.5		24	4.44	...		13	20.3	M
25	8.0		9	17.97	...		32	47.6	R	Oct. 1	7.5		24	4.41	...		13	23.3	R
27	8.0		9	18.14	...		32	48.4	R	3	7.5		24	4.33	...		13	28.0	R
29	8.0		9	18.01	...		32	48.8	R	614 <i>22 Aquarii β</i>									
608 <i>Anon.</i>										Oct. 8	...	21	25	17.59	...	96	5	37.8	R
Oct. 15	10.5	21	9	25.18	3	110	46	59.6	R	10	...		25	17.51	...		5	38.4	R
17	10.5		9	25.20	4		46	59.0	R	13	...		25	17.50	...		5	36.8	R
										21	...		25	17.68	...		5	39.1	R
										24	...		25	17.48	...		5	38.7	R

Number and Date.	Magnitude.	Mean Right Ascension 1881.	No. of Wires.	Mean Polar Distance 1881.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881.	No. of Wires.	Mean Polar Distance 1881.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
615 <i>Lacaille 8831.</i>						621 <i>Anon.</i>					
Oct. 15	7.0	21 26 24.35	...	153 29 43.3	R	Sep. 26	8.0	21 34 54.32	...	148 26 18.2	M
17	7.0	26 24.50	...	29 41.3	R	28	8.0	34 54.17	...	26 18.2	M
22	7.0	26 24.38	...	29 44.1	R	29	8.0	34 54.27	...	26 21.7	M
25	7.0	26 24.44	...	29 45.7	R	Oct. 7	8.0	34 54.03	...	26 18.2	R
						8	8.0	34 54.12	...	26 17.0	R
616 <i>Anon.</i>						622 <i>8 Pegasi ε</i>					
Oct. 11	8.0	21 27 9.86	...	147 41 0.5	R	Sep. 27	...	21 38 20.53	...	80 40 11.5	M
14	8.0	27 9.67	...	41 0.4	R	30	...	38 20.39	...	40 14.5	M
18	8.0	27 9.78	...	41 5.0	R	Oct. 5	...	38 20.55	...	40 10.3	R
20	8.0	27 9.85	...	41 3.2	R	17	...	38 20.45	...	40 12.3	R
617 <i>Taylor 10026.</i>						623 <i>49 Capricorni δ</i>					
Oct. 1	6.0	21 31 31.27	...	147 58 35.1	R	Oct. 23	...	21 40 28.21	...	106 40 6.6	R
3	6.5	31 31.15	...	58 32.9	R						
4	6.5	31 31.17	...	58 34.5	R						
5	6.5	31 31.13	...	58 34.8	R						
10	6.0	31 31.29	...	58 32.5	R						
618 <i>40 Capricorni γ</i>						624 <i>Taylor 10107.</i>					
Oct. 26	...	21 33 29.64	...	107 12 3.2	R	Oct. 1	...	21 40 34.55	...	146 49 29.6	R
27	...	33 29.67	...	12 3.6	R	3	...	40 34.35	...	49 28.4	R
28	...	33 29.63	...	12 3.9	R	4	...	40 34.30	...	49 28.0	R
29	...	33 29.76	...	12 4.6	R	10	...	40 34.49	...	49 29.0	R
						11	...	40 34.50	...	49 29.0	R
619 <i>Anon.</i>						625 <i>Anon.</i>					
Oct. 19	8.5	21 34 48.06	...	152 12 18.2	R	Oct. 12	8.0	21 41 1.49	...	153 25 30.6	R
20	8.5	34 48.01	...	12 19.3	R	14	8.0	41 1.48	...	25 31.2	R
21	8.5	34 48.10	...	12 19.8	R	18	8.0	41 1.54	...	25 33.2	R
22	8.5	34 48.01	...	12 18.4	R	19	8.0	41 1.60	...	25 33.9	R
24	8.5	34 47.98	...	12 17.8	R	20	8.0	41 1.67	...	25 34.7	R
620 <i>Anon.</i>						626 <i>Lacaille 8920.</i>					
Oct. 11	8.0	21 34 48.68	...	148 19 20.1	R	Oct. 22	7.5	21 43 17.58	...	152 36 23.8	R
12	8.0	34 48.67	...	19 20.6	R	24	6.5	43 17.50	...	36 25.0	R
13	8.0	34 48.69	...	19 19.9	R	25	6.5	43 17.47	...	36 25.9	R
14	8.0	34 48.80	...	19 20.7	R	26	6.5	43 17.58	...	36 25.6	R
15	8.0	34 48.63	...	19 21.2	R	27	6.5	43 17.65	...	36 25.5	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
627 <i>Anon.</i>										633 <i>Anon.</i>									
Sep. 28	7.0	21	44	26.34	...	147	53	32.5	M	Sep. 26	7.5	21	52	43.54	...	147	2	27.5	M
29	7.0		44	26.31	...		53	32.6	M	28	...		52	43.40	...		2	27.8	M
Oct. 7	7.0		44	26.12	...		53	30.7	R	29	7.5		52	43.56	...		2	27.9	M
8	7.0		44	26.27	...		53	30.0	R	Oct. 7	7.5		52	43.50	...		2	26.1	R
13	7.0		44	26.43	...		53	30.6	R	8	7.5		52	43.57	...		2	26.7	R
628 <i>γ Gruis.</i>										634 <i>Anon.</i>									
Oct. 5	...	21	46	42.88	...	127	55	27.1	R	Oct. 1	7.5	21	54	14.07	...	145	19	59.4	R
629 <i>16 Pegasi.</i>										3	7.5		54	14.13	...		19	59.9	R
Oct. 4	...	21	47	38.83	...	64	38	3.5	R	13	7.5		54	14.03	...		19	59.3	R
11	...		47	38.83	...		38	4.5	R	14	7.5		54	13.99	...		20	0.0	R
12	...		47	38.80	...		38	2.3	R	15	7.5		54	14.07	...		20	0.3	R
20	...		47	38.79	...		38	3.1	R	635 <i>Anon.</i>									
21	...		47	38.86	...		38	4.0	R	Oct. 8	8.0	21	56	40.80	...	143	6	45.8	R
630 <i>Anon.</i>										10	8.0		56	40.81	...		6	47.5	R
Oct. 1	7.0	21	48	14.56	...	146	15	11.6	R	11	8.0		56	40.83	...		6	47.4	R
3	7.0		48	14.51	...		15	8.6	R	12	8.0		56	40.76	...		6	40.4	R
10	7.0		48	14.52	...		15	9.9	R	17	8.0		56	40.89	...		6	48.9	R
14	7.0		48	14.48	...		15	7.9	R	636 <i>Anon.</i>									
15	7.0		48	14.50	...		15	9.0	R	Oct. 15	7.5	21	59	34.16	...	154	5	5.4	R
631 <i>Anon.</i>										18	7.5		59	34.07	...		5	4.9	R
Oct. 22	9.0	21	50	36.40	...	154	46	54.9	R	19	7.5		59	34.14	...		5	3.4	R
25	9.5		50	36.33	...		46	55.3	R	20	7.5		59	34.19	...		5	5.8	R
27	9.0		50	36.29	...		46	55.9	R	21	7.5		59	34.30	...		5	6.8	R
29	9.0		50	36.26	...		46	55.0	R	637 <i>34 Aquarii a</i>									
31	9.0		50	36.35	...		46	56.9	R	Sep. 28	...	21	59	40.14	...	90	53	49.2	M
632 <i>Anon.</i>										29	...		59	40.27	...		53	49.7	M
Oct. 24	7.5	21	52	41.43	...	131	6	33.7	R	638 <i>Anon.</i>									
28	7.5		52	41.40	...		6	32.9	R	Oct. 27	7.5	21	59	50.54	...	133	4	55.9	R
Nov. 5	...		52	41.42	...		6	29.3	M	28	7.5		59	50.62	...		4	55.9	R
9	...		52	41.45	...		6	29.3	M	29	7.5		59	50.60	...		4	56.0	R
16	...		52	41.50	...		6	30.0	M	Nov. 9	...		59	50.63	2		4	53.4	M
										16	...		59	50.58	...		4	52.4	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>	
639 <i>Lacaille 9020.</i>										645 <i>Lacaille 9076.</i>									
Oct. 3	6.5	22	0	39.20	...	140	41	9.9	R	Oct. 1	...	22	10	27.00	...	144	11	59.8	R
4	7.0		0	39.32	...		41	10.9	R	3	...		10	27.01	...		11	58.0	R
5	7.0		0	39.30	5		41	10.9	R	4	...		10	26.85	...		11	59.8	R
7	7.0		0	39.33	...		41	12.4	R	5	...		10	26.91	...		11	59.4	R
11	7.0		0	39.29	...		41	12.8	R	7	...		10	27.04	...		12	1.9	R
640 <i>Anon.</i>										646 <i>43 Aquarii θ</i>									
Oct. 1	8.5	22	2	34.53	...	144	35	26.9	R	Oct. 29	...	22	10	33.20	...	98	22	32.8	R
8	8.5		2	34.36	...		35	24.5	R	Nov. 5	...		10	33.04	...		22	32.9	M
10	8.5		2	34.39	...		35	23.8	R	9	...		10	33.22	...		22	31.0	M
12	9.0		2	34.42	5		35	22.6	R	10	...		10	33.15	...		22	32.9	M
13	9.0		2	34.50	...		35	25.6	R	647 <i>Lacaille 9091.</i>									
641 <i>Anon.—2nd Star.</i>										Oct. 10	...	22	11	17.97	...	127	11	20.7	R
Oct. 14	7.5	22	2	41.47	...	154	36	0.7	R	11	...		11	17.98	...		11	20.6	R
17	7.5		2	41.51	...		35	59.6	R	14	...		11	17.88	...		11	19.6	R
24	7.5		2	41.49	...		36	2.1	R	17	...		11	17.84	...		11	18.4	R
25	7.5		2	41.54	...		36	3.3	R	18	...		11	18.08	...		11	19.4	R
26	7.5		2	41.43	...		36	3.0	R	648 <i>Anon.</i>									
642 <i>Anon.</i>										Sep. 27	7.0	22	11	59.43	...	127	13	45.8	M
Oct. 19	9.0	22	7	32.54	...	147	27	32.5	R	Oct. 15	7.5		11	59.34	...		13	47.1	R
20	9.0		7	32.56	...		27	33.1	R	21	8.0		11	59.55	...		13	50.0	R
22	9.0		7	32.54	...		27	32.5	R	24	8.0		11	59.44	...		13	49.4	R
27	9.0		7	32.49	...		27	35.0	R	25	8.0		11	59.63	...		13	48.8	R
28	9.0		7	32.38	...		27	35.1	R	649 <i>48 Aquarii γ</i>									
643 <i>Anon.</i>										Oct. 7	...	22	15	30.57	...	91	59	9.9	R
Sep. 26	7.5	22	9	24.67	...	148	22	36.5	M	11	...		15	30.46	...		59	9.0	R
28	7.5		9	24.70	...		22	35.1	M	18	...		15	30.53	...		59	10.6	R
Oct. 8	8.0		9	24.64	...		22	34.6	R	20	...		15	30.53	...		59	10.8	R
12	7.5		9	24.90	...		22	35.3	R	22	...		15	30.52	...		59	12.4	R
13	7.5		9	24.88	...		22	35.0	R	26	...		15	30.50	...		59	11.4	R
644 <i>a Tucanæ.</i>										27	...		15	30.54	...		59	11.1	R
Nov. 16	...	22	10	20.06	...	150	51	6.7	M	28	...		15	30.51	...		59	10.4	R
18	...		10	20.08	...		51	6.2	M	Nov. 9	...		15	30.64	...		59	11.8	M
										10	...		15	30.54	...		59	11.6	M
										14	...		15	30.48	...		59	10.6	M
										16	...		15	30.48	...		59	11.1	M
										17	...		15	30.65	...		59	11.4	M
										18	...		15	30.61	...		59	11.2	M

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.
650 <i>Lacaille 9115.</i>						655 <i>R. P. L. 151—s.p.</i>					
Oct. 1	7.5	22 17 47.36	...	141 59 54.2	R	Mar. 29	...	22 23 0.90	3	4 22 41.4	M
3	7.5	17 47.30	...	59 52.7	R	May 5	...	23 0.15	3	22 40.2	R
8	7.5	17 47.31	...	59 54.3	R	656 <i>Lacaille 9150.</i>					
10	7.5	17 47.37	...	59 56.1	R	Oct. 20	8.0	22 24 2.60	...	143 59 35.5	R
13	7.5	17 47.47	...	59 52.7	R	25	7.5	24 2.58	...	59 37.2	R
651 <i>Anon.</i>						27	7.5	24 2.54	...	59 37.0	R
Sep. 28	7.5	22 18 21.29	...	153 8 35.6	M	Nov. 10	...	24 2.46	...	59 32.6	R
Oct. 12	7.5	18 21.35	...	8 35.2	R	14	...	24 2.32	5	59 33.4	M
15	7.5	18 21.35	...	8 34.8	R	657 <i>Lacaille 9152.</i>					
17	7.5	18 21.34	...	8 32.7	R	Oct. 1	7.0	22 24 4.57	...	141 32 52.0	R
21	7.5	18 21.45	...	8 36.1	R	3	7.0	24 4.40	...	32 49.8	R
652 <i>Anon.—1st Star.</i>						4	7.0	24 4.40	...	32 51.4	R
Sep. 29	7.0	22 22 5.43	...	139 6 53.3	M	10	7.0	24 4.56	...	32 50.1	R
Oct. 7	7.0	22 5.46	...	6 51.6	R	12	7.0	24 4.50	...	32 51.3	R
13	7.0	22 5.66	...	6 50.2	R	658 <i>Anon.</i>					
14	7.0	22 5.67	...	6 51.2	R	Oct. 18	7.5	22 25 30.64	...	150 36 14.5	R
15	7.0	22 5.60	...	6 51.7	R	21	7.5	25 30.84	...	36 18.2	R
653 <i>R. P. L.—150.</i>						28	7.5	25 30.88	...	36 18.9	R
Oct. 19	...	22 22 38.95	3	4 29 34.1	R	Nov. 16	8.0	25 30.81	...	36 15.4	M
22	...	22 33.97	3	29 35.9	R	17	8.0	25 30.68	...	36 16.4	M
31	...	22 32.74	3	29 35.6	R	659 <i>Anon.</i>					
<i>R. P. L. 150—s.p.</i>						Oct. 15	8.9	22 28 59.94	...	154 25 55.4	R
Apl. 4	...	22 22 33.39	3	4 29 31.8	R	17	8.9	28 59.90	...	25 53.1	R
8	...	22 33.83	3	29 31.9	R	19	9.0	28 59.96	...	25 54.3	R
12	...	22 33.53	3	29 32.9	R	20	9.0	29 0.11	...	25 55.5	R
16	...	22 33.07	3	29 31.9	R	22	9.0	29 0.06	...	25 54.5	R
20	...	22 33.33	3	29 32.7	R	660 <i>62 Aquarii η</i>					
25	...	22 33.47	3	29 29.6	R	Oct. 12	...	22 29 14.42	...	90 43 49.2	R
May 3	...	22 33.57	3	29 38.4	R	24	...	29 14.38	...	43 50.1	R
654 <i>55 Aquarii ζ¹</i>						25	...	29 14.42	...	43 49.6	R
Oct. 5	...	22 22 42.09	...	90 37 42.7	R	29	...	29 14.39	...	43 49.6	R
						31	...	29 14.38	...	43 49.8	R
						Nov. 5	...	29 14.49	...	43 48.5	M
						14	...	29 14.50	...	43 50.4	M
						18	...	29 14.54	...	43 48.8	M

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Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.
661 <i>Lacaille 9186.</i>						667 <i>Taylor 10521.</i>					
Sep. 26	7.0	22 30 55.29	...	137 19 29.9	M	Oct. 1	5.0	22 38 38.81	...	137 10 18.7	R
28	7.0	30 55.81	...	19 30.4	M	4	6.0	38 38.78	...	10 17.3	R
Oct. 8	7.0	30 55.50	...	19 26.6	R	7	6.0	38 38.77	...	10 17.4	R
14	7.0	30 55.33	...	19 28.7	R	10	6.0	38 38.69	...	10 16.3	R
18	7.0	30 55.66	...	19 30.1	R	11	6.0	38 38.70	...	10 16.1	R
662 <i>Anon.</i>						668 <i>Lacaille 9240.</i>					
Oct. 1	8.0	22 31 41.23	...	140 38 1.8	R	Oct. 13	6.0	22 41 4.44	...	154 20 47.3	R
7	8.0	31 41.10	...	37 59.8	R	14	6.0	41 4.42	...	20 47.5	R
10	8.0	31 41.03	...	37 58.6	R	17	6.0	41 4.58	...	20 47.3	R
11	8.0	31 41.16	...	37 58.3	R	21	6.0	41 4.53	...	20 51.5	R
13	8.0	31 41.19	...	37 58.5	R	24	6.0	41 4.57	...	20 49.3	R
663 <i>42 Pegasi ζ</i>						669 <i>Anon.</i>					
Oct. 3	...	22 35 31.43	...	79 47 19.9	R	Oct. 20	8.0	22 42 20.52	...	143 56 19.3	R
8	...	35 31.52	...	47 21.4	R	22	8.0	42 20.43	...	56 17.7	R
14	...	35 31.53	...	47 22.5	R	25	8.0	42 20.48	...	56 19.5	R
17	...	35 31.50	...	47 23.5	R	26	8.0	42 20.44	...	56 18.3	R
21	...	35 31.47	...	47 22.0	R	27	8.0	42 20.52	...	56 18.3	R
664 <i>β Gruis.</i>						670 <i>Taylor 10550.</i>					
Nov. 2	...	22 35 33.13	...	137 30 21.0	M	Nov. 5	7.0	22 44 15.33	...	120 47 13.3	M
9	...	35 33.20	...	30 22.5	M	9	6.5	44 15.45	...	47 14.7	M
10	...	35 33.03	...	30 22.0	M	10	...	44 15.45	...	47 12.0	M
17	...	35 33.15	...	30 23.2	M	14	6.0	44 15.25	...	47 13.4	M
24	...	35 33.18	...	30 21.6	M	16	6.0	44 15.42	...	47 15.0	M
665 <i>Anon.</i>						671 <i>73 Aquarii λ</i>					
Oct. 15	8.0	22 37 16.77	...	154 5 8.1	R	Oct. 10	...	22 46 24.25	...	98 12 44.7	R
18	8.0	37 16.03	...	5 6.2	R	15	...	46 24.17	...	12 45.0	R
19	8.0	37 16.74	...	5 7.9	R	18	...	46 24.25	...	12 44.8	R
20	8.0	37 16.47	...	5 8.5	R	19	...	46 24.19	...	12 45.8	R
22	8.0	37 16.87	...	5 8.0	R	22	...	46 24.27	...	12 46.2	R
666 <i>Anon.</i>						24	...	46 24.21	...	12 45.8	R
Oct. 28	9.5	22 38 37.90	...	148 35 35.9	R	25	...	46 24.22	...	12 45.4	R
Nov. 16	9.5	38 37.77	...	35 33.4	M	26	...	46 24.21	...	12 45.1	R
18	9.5	38 37.94	...	35 34.2	M	27	...	46 24.22	...	12 44.1	R
21	...	38 37.81	3	35 33.1	M	28	...	46 24.28	...	12 45.4	R
23	9.5	38 37.73	...	35 32.8	M	31	...	46 24.21	...	12 44.4	R
						Nov. 7	...	46 24.30	...	12 47.5	M

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Nov. 21	...	22 46 24.39	...	98 12 46.0	M	678 <i>Anon.</i>					
23	...	46 24.23	...	12 44.8	M	Oct. 19	8.0	22 52 20.51	...	154 20 28.0	R
24	...	46 24.33	...	12 45.9	M	21	8.0	52 20.57	...	20 28.9	R
30	...	46 24.34	...	12 46.4	M	22	8.0	52 20.47	...	20 27.0	R
672 <i>Anon.</i>						24	8.0	52 20.47	5	20 26.4	R
Sep. 27	8.0	22 47 0.25	...	140 10 5.0	M	25	8.0	52 20.59	...	20 26.3	R
28	8.0	47 0.10	...	10 5.7	M	679 <i>Lacaille 9317.</i>					
29	8.0	47 0.18	...	10 8.4	M	Sep. 26	7.0	22 52 23.75	...	135 49 35.9	M
30	8.0	47 0.09	...	10 6.6	M	28	7.0	52 23.79	...	49 35.9	M
Oct. 7	8.0	47 0.20	...	10 6.0	R	29	7.0	52 23.85	...	49 36.1	M
673 <i>Lacaille 9298.</i>						30	7.0	52 23.89	...	49 37.6	M
Oct. 4	5.6	22 48 33.79	...	127 1 21.9	R	Oct. 1	6.5	52 23.85	...	49 36.2	R
8	6.0	48 33.80	...	1 19.7	R	3	6.5	52 23.80	...	49 33.3	R
11	6.0	48 33.83	...	1 19.0	R	680 <i>Anon.</i>					
12	6.0	48 33.75	...	1 18.4	R	Oct. 11	7.0	22 55 43.62	...	153 1 22.6	R
13	6.0	48 33.92	...	1 19.8	R	12	7.0	55 43.54	...	1 21.6	R
674 <i>Anon.</i>						13	7.0	55 43.66	...	1 20.7	R
Oct. 17	8.9	22 50 12.13	...	156 58 17.7	R	14	7.0	55 43.68	...	1 21.5	R
20	8.5	50 12.17	...	58 19.6	R	15	7.0	55 43.64	...	1 22.7	R
Nov. 16	...	50 12.09	4	58 15.6	M	681 <i>Stone 12003.</i>					
25	8.5	50 12.12	...	58 16.2	M	Oct. 31	...	22 58 21.35	...	133 40 3.7	R
26	8.5	50 11.83	...	58 16.0	M	Nov. 17	...	58 21.42	...	40 0.4	M
675 <i>Anon.—1st Star.</i>						18	...	58 21.48	...	40 2.8	M
Oct. 29	9.0	22 51 5.63	5	123 50 28.3	R	21	...	58 21.42	...	40 0.0	M
676 <i>Anon.—2nd Star.</i>						23	...	58 21.32	...	39 59.2	M
Nov. 5	8.5	22 51 10.48	6	123 49 57.7	M	682 <i>Anon.</i>					
9	8.5	51 10.46	...	49 57.4	M	Oct. 21	8.5	22 58 21.52	...	155 58 56.5	R
17	8.5	51 10.43	...	49 57.8	M	22	9.0	58 21.47	...	58 57.0	R
18	8.5	51 10.43	...	49 59.0	M	25	9.0	58 21.49	...	58 55.2	R
677 <i>Anon.</i>						Nov. 25	8.5	58 21.36	...	58 53.9	M
Oct. 26	9.5	22 52 14.20	...	144 59 24.6	R	683 <i>54 Pegasi α, Markab.</i>					
28	9.5	52 14.26	...	59 24.6	R	Oct. 29	...	22 58 49.94	...	75 26 5.2	R
Nov. 21	...	52 14.36	...	59 21.3	M						
23	9.5	52 14.25	...	59 20.7	M						
24	9.5	52 14.44	...	59 22.9	M						

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684 <i>Lacaille 9360—2nd.</i>						690 <i>Anon.</i>					
Oct. 24	6.5	22 58 59.84	...	133 43 18.2	R	Oct. 1	8.0	23 6 39.77	...	146 43 39.7	R
28	7.0	58 59.86	...	43 16.7	R	8	8.0	6 39.65	...	43 36.4	R
Nov. 9	6.5	58 59.91	...	43 15.3	M	10	8.0	6 39.69	...	43 36.5	R
16	7.0	58 59.84	...	43 14.6	M	17	8.0	6 39.72	...	43 37.2	R
685 <i>Anon.</i>						18	8.0	6 39.89	...	43 38.2	R
Oct. 1	8.0	22 59 0.46	...	149 20 10.1	R	691 <i>Anon.</i>					
8	8.0	59 0.36	...	20 8.6	R	Oct. 19	9.0	23 7 15.80	...	142 40 18.0	R
10	8.0	59 0.39	...	20 8.2	R	21	9.0	7 15.91	...	40 19.3	R
17	8.0	59 0.39	...	20 9.9	R	22	9.0	7 15.88	...	40 19.0	R
18	8.0	59 0.47	...	20 10.3	R	24	9.0	7 15.87	...	40 18.8	R
686 <i>Anon.</i>						25	9.0	7 15.90	...	40 21.2	R
Oct. 3	8.0	23 0 41.88	...	128 44 56.5	R	692 <i>Anon.</i>					
4	8.0	0 41.91	...	44 57.3	R	Oct. 3	6.5	23 9 37.48	...	127 46 6.8	R
13	8.0	0 41.86	...	44 56.8	R	4	6.5	9 37.49	...	46 3.4	R
15	8.0	0 41.80	6	44 57.9	R	11	6.5	9 37.44	...	46 7.9	R
20	8.0	0 42.09	...	44 55.8	R	15	6.7	9 37.58	...	46 5.9	R
687 <i>Anon.</i>						20	6.5	9 37.63	...	46 6.1	R
Oct. 26	8.0	23 0 46.68	...	154 16 10.1	R	693 <i>Lacaille 9423—1st.</i>					
27	8.0	0 46.64	...	16 11.9	R	Oct. 28	9.0	23 10 50.85	...	151 38 57.9	R
Nov. 24	8.0	0 46.58	...	16 9.4	M	694 <i>6 Piscium γ</i>					
26	...	0 46.55	...	16 13.5	M	Sep. 28	...	23 10 59.72	...	87 22 6.3	M
Dec. 2	...	0 46.48	3	16 11.4	R	29	...	10 59.68	...	22 5.5	M
688 <i>Lacaille 9370.</i>						Oct. 26	...	10 59.69	...	22 5.2	R
Sep. 30	8.0	23 0 53.51	...	144 43 11.2	M	27	...	10 59.71	...	22 5.4	R
Oct. 11	8.0	0 53.69	...	43 9.2	R	31	...	10 59.74	...	22 5.3	R
12	8.0	0 53.58	...	43 8.2	R	695 <i>Anon.</i>					
14	8.0	0 53.54	...	43 8.1	R	Sep. 30	8.0	23 12 38.80	...	148 46 30.0	M
19	8.0	0 53.78	...	43 11.8	R	Oct. 10	8.0	12 38.89	...	46 26.7	R
689 <i>Anon.</i>						12	8.0	12 38.82	...	46 26.3	R
Sep. 26	7.5	23 5 9.26	...	135 22 12.4	M	14	8.0	12 38.79	...	46 26.1	R
27	7.5	5 9.22	...	22 11.3	M	17	8.0	12 38.91	...	46 26.6	R
28	7.5	5 9.25	...	22 11.6	M						
29	7.5	5 9.23	...	22 12.2	M						
Oct. 7	7.5	5 9.20	...	22 11.8	R						

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
696 <i>Lacaille 9441.</i>										Oct. 11	...	23	20	49.87	...	89	23	43.9	R
Oct. 1	7.5	23	13	9.76	...	131	44	2.0	R	25	...	20	49.92	23	45.9	R	R
13	7.5	13	9.85	...	...	43	58.9	...	R	28	...	20	49.92	...	...	23	45.6	R	R
18	7.5	13	9.72	...	...	44	3.0	...	R	Nov. 2	...	20	49.92	...	...	23	43.1	M	M
19	7.5	13	9.71	...	...	44	3.3	...	R										
21	7.5	13	9.83	...	...	44	4.8	...	R										
697 <i>Lacaille 9444.</i>										703 <i>Anon.</i>									
Oct. 29	6.5	23	13	16.58	...	124	21	30.7	R	Oct. 21	7.0	23	24	4.91	...	152	51	59.1	R
Nov. 2	...	13	16.62	...	...	21	30.9	...	M	22	7.0	24	4.83	...	...	51	57.6	R	R
5	6.5	13	16.56	...	...	21	29.8	...	M	26	7.5	24	4.85	...	...	52	0.5	R	R
10	...	13	16.66	...	...	21	29.9	...	M	27	7.5	24	4.91	...	...	51	59.0	R	R
16	7.0	13	16.60	...	...	21	29.1	...	M	29	7.5	24	5.00	...	...	51	59.3	R	R
698 <i>Anon.</i>										704 <i>Taylor 10784.</i>									
Oct. 22	9.5	23	15	32.42	...	150	37	40.3	R	Sep. 27	7.0	23	24	8.38	...	132	38	32.5	M
24	9.5	15	32.41	...	...	37	39.1	...	R	28	7.5	24	8.39	...	...	38	33.2	M	M
25	9.5	15	32.47	...	...	37	39.2	...	R	29	7.5	24	8.37	...	...	38	33.5	M	M
26	9.5	15	32.51	...	...	37	38.8	...	R	30	7.5	24	8.30	...	...	38	35.1	M	M
27	9.5	15	32.57	...	...	37	39.7	...	R	Oct. 7	7.0	24	8.45	...	...	38	30.9	R	R
699 <i>Anon.</i>										705 <i>Anon.</i>									
Oct. 3	7.0	23	16	12.90	...	130	40	38.4	R	Oct. 15	8.0	23	24	23.54	...	155	1	40.4	R
700 <i>Taylor 10748.</i>										17	8.0	24	23.52	...	...	1	38.5	R	R
Oct. 20	7.0	23	18	31.61	...	147	30	12.3	R	18	8.0	24	23.62	...	...	1	36.0	R	R
701 <i>Lacaille 9465.</i>										19	8.0	24	23.68	...	...	1	38.6	R	R
Oct. 12	8.0	23	19	30.39	...	153	53	30.2	R	20	8.0	24	23.78	...	...	1	39.6	R	R
13	8.0	19	30.81	...	...	53	29.7	...	R	706 <i>O. A. N. 25745.</i>									
14	8.0	19	30.34	...	...	53	30.9	...	R	Oct. 3	7.5	23	27	47.86	...	81	20	53.2	R
15	8.0	19	30.21	...	...	53	31.7	...	R	4	7.5	27	47.89	...	...	21	0.2	R	R
17	8.0	19	30.41	...	...	53	27.5	...	R	8	8.0	27	47.91	...	...	20	59.5	R	R
702 <i>8 Piscium κ</i>										10	8.0	27	47.90	...	...	21	1.1	R	R
Sep. 26	...	23	20	49.87	...	89	28	48.4	M	13	8.0	27	47.98	...	...	20	59.0	R	R
Oct. 1	...	20	49.77	...	...	23	46.3	...	R	707 <i>R. P. L. 158.</i>									
4	...	20	49.78	...	...	23	45.6	...	R	Oct. 11	...	23	27	49.50	3	3	20	53.1	R
8	...	20	49.79	23	45.3	...	R	Nov. 9	...	27	50.47	3	...	20	53.5	M	M
10	...	20	49.89	23	45.0	...	R	16	...	27	49.66	3	...	20	53.8	M	M
										23	...	27	50.27	3	...	20	51.7	M	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
708 <i>Anon.</i>									
Oct. 24	8.0	23	29	36.85	...	134	6	26.4	R
27	8.0		29	36.70	...		6	26.9	R
29	8.0		29	36.77	...		6	26.5	R
31	8.0		29	36.78	...		6	27.5	R
Nov. 17	8.0		29	36.62	...		6	25.4	M
709 <i>Anon.</i>									
Oct. 17	7.8	23	32	56.47	...	156	54	45.7	R
18	7.8		32	56.58	...		54	44.4	R
21	6.5		32	56.74	...		54	43.5	R
25	7.5		32	56.53	...		54	43.7	R
28	7.5		32	56.56	...		54	46.8	R
710 <i>17 Piscium</i>									
Sep. 30	...	23	33	49.84	...	85	1	10.3	M
Oct. 12	...		33	49.69	...		1	5.8	R
Nov. 2	...		33	49.75	...		1	7.7	M
5	...		33	49.75	...		1	8.1	M
7	...		33	49.71	...		1	7.5	M
16	...		33	49.84	...		1	7.1	M
25	...		33	49.79	...		1	7.6	M
26	...		33	49.75	...		1	8.0	M
Dec. 1	...		33	49.79	...		1	6.6	R
2	...		33	49.72	...		1	5.1	R
711 <i>Anon.</i>									
Oct. 7	8.0	23	34	14.97	...	151	58	35.3	R
15	8.0		34	14.99	...		58	38.4	R
20	8.0		34	15.02	...		58	39.7	R
22	8.0		34	15.02	...		58	38.9	R
26	8.0		34	15.00	...		58	37.8	R
712 <i>Lacaille 9557.</i>									
Oct. 8	6.5	23	35	52.45	...	151	43	18.9	R
10	6.5		35	52.50	...		43	19.4	R
11	6.7		35	52.57	...		43	19.6	R
18	6.6		35	52.45	...		43	19.1	R
14	6.7		35	52.44	...		43	19.8	R
713 <i>Anon.</i>									
Oct. 19	8.0	23	36	5.22	...	148	8	20.5	R
27	8.0		36	5.18	...		8	19.3	R
Nov. 17	8.0		36	5.20	...		8	19.8	M
18	...		36	5.20	...		8	18.8	M
24	8.0		36	5.25	...		8	17.3	M
714 <i>G. C. Z. XXIII. 977.</i>									
Sep. 29	8.0	23	36	7.06	...	148	37	18.4	M
715 <i>Stone 12267.</i>									
Oct. 29	7.5	23	37	53.61	...	131	20	46.8	R
Nov. 9	7.5		37	53.77	...		20	45.4	M
10	...		37	53.61	...		20	47.6	M
21	7.5		37	53.73	...		20	47.3	M
23	7.5		37	53.66	...		20	45.6	M
716 <i>Anon.</i>									
Oct. 18	7.8	23	39	20.70	...	142	53	44.4	R
22	7.5		39	20.90	...		53	50.1	R
24	7.5		39	20.88	...		53	49.0	R
25	7.5		39	20.75	...		53	48.7	R
26	7.5		39	20.73	...		53	48.8	R
717 <i>Lacaille 9589.</i>									
Oct. 1	5.6	23	40	28.33	...	146	28	17.3	R
3	5.6		40	28.48	...		28	13.9	R
12	6.5		40	28.32	...		28	16.2	R
14	6.5		40	28.31	...		28	14.2	R
17	6.5		40	28.32	...		28	13.3	R
718 <i>Anon.</i>									
Oct. 21	8.0	23	41	58.38	...	152	40	16.3	R
28	8.0		41	58.44	...		40	13.7	R
Nov. 16	8.5		41	58.37	4		40	13.0	M
17	8.0		41	58.32	...		40	12.2	M
18	...		41	58.30	...		40	14.5	M

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.
719 <i>δ Sculptoris.</i>						725 <i>η Tucanæ.</i>					
Sep. 27	...	23 42 43.37	...	118 47 19.3	M	Sep. 30	...	23 51 19.45	...	154 57 34.6	M
28	...	42 43.80	...	47 19.4	M	Oct. 15	...	51 19.47	...	57 34.6	R
29	...	42 43.82	...	47 20.1	M	726 <i>Anon.</i>					
Dec. 2	...	42 43.57	...	47 18.4	R	Oct. 28	9.0	23 51 28.75	...	142 51 38.0	R
720 <i>Lacaille 9604.</i>						Nov. 21	9.0	51 28.59	6	51 34.8	M
Oct. 7	6.0	23 43 19.86	...	153 30 1.3	R	24	9.0	51 28.68	5	51 35.3	M
11	6.0	43 19.89	...	30 2.8	R	Dec. 6	9.0	51 28.57	...	51 34.8	R
13	6.0	43 19.94	...	30 1.1	R	727 <i>Anon.</i>					
15	6.7	43 19.73	...	30 2.3	R	Sep. 29	7.0	23 52 9.24	...	153 40 6.3	M
19	6.0	43 19.78	...	29 59.8	R	Oct. 10	7.0	52 9.43	...	40 4.6	R
721 <i>Anon.</i>						14	7.0	52 9.30	...	40 3.4	R
Oct. 8	7.0	23 43 35.22	...	151 47 49.4	R	17	7.0	52 9.24	...	40 2.3	R
10	7.0	43 35.24	...	47 50.0	R	18	7.0	52 9.32	...	40 5.7	R
20	7.0	43 35.38	...	47 53.5	R	728 <i>28 Piscium ω</i>					
24	7.0	43 35.38	...	47 52.7	R	Oct. 7	...	23 53 11.89	...	83 47 43.3	R
27	7.0	43 35.37	...	47 53.0	R	13	...	53 12.06	...	47 42.6	R
722 <i>Anon.</i>						21	...	53 11.98	...	47 44.2	R
Oct. 22	9.0	23 45 42.39	...	139 30 38.5	R	Nov. 2	...	53 12.00	...	47 42.7	M
26	9.0	45 42.42	...	30 38.2	R	10	...	53 11.97	...	47 46.1	M
29	9.0	45 42.35	4	30 37.6	R	729 <i>Anon.—2nd Star.</i>					
Nov. 9	9.0	45 42.43	...	30 35.0	M	Oct. 22	7.5	23 53 26.27	...	132 56 50.1	R
14	9.0	45 42.42	...	30 35.6	M	24	7.5	53 26.20	...	56 50.0	R
723 <i>Stone 12335.</i>						25	7.5	53 26.25	...	56 49.3	R
Oct. 25	7.5	23 47 25.56	...	140 5 44.5	R	26	7.5	53 26.23	...	56 49.3	R
Nov. 25	7.5	47 25.44	...	5 40.8	M	27	7.5	53 26.27	...	56 49.8	R
26	...	47 25.51	4	5 42.8	M	730 <i>Anon.</i>					
Dec. 1	7.5	47 25.55	...	5 41.2	R	Oct. 20	10.5	23 54 4.48	4	101 21 8.2	R
7	7.5	47 25.39	...	5 42.6	R	731 <i>Anon.</i>					
724 <i>Taylor 10930.</i>						Oct. 1	7.0	23 55 30.83	...	129 59 54.6	R
Oct. 1	...	23 48 24.11	...	130 57 49.7	R	8	7.0	55 30.83	...	59 52.6	R
3	...	48 24.07	...	57 46.3	R	11	7.0	55 30.72	...	59 53.6	R
8	...	48 28.83	...	57 48.6	R	12	7.0	55 30.74	...	59 52.8	R
11	...	48 23.99	...	57 47.9	R	15	7.0	55 30.75	...	59 52.1	R
12	...	48 23.94	...	57 47.3	R						

Separate Results of Madras Meridian Circle Observations in 1881.

Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1881. h. m. s.	No. of Wires.	Mean Polar Distance 1881. ° ' "	Observer.
732 <i>Lacaille 9709.</i>						733 <i>Anon.</i>					
Oct. 21	7.0	23 58 38.84 ...		142 14 52.8	R	Oct. 19	8.0	28 59 47.52 ...		132 24 49.7	R
24	7.0	58 38.75 ...		14 49.6	R	20	8.0	59 47.53 ...		24 49.5	R
26	6.5	58 38.74 ...		14 50.5	R	22	8.0	59 47.67 ...		24 49.8	R
28	6.5	58 38.83 ...		14 50.4	R	25	8.0	59 47.46 ...		24 52.5	R
29	6.5	58 38.82 ...		14 50.4	R	27	8.0	59 47.48 ...		24 52.5	R

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1881

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
1	21 Androm. α (<i>Alpherat</i>)	2.1	...	0	2	14.22	61	38	59.3	8	0.87
2	... ..	7.0	5	0	2	45.77	137	43	18.6	5	0.77
3	... ..	8.1	5	0	4	7.46	153	57	30.2	5	0.87
4	... ..	8.2	5	0	5	33.73	150	9	56.5	5	0.80
5	88 Pegasi γ (<i>Algenib</i>)	3.0	...	0	7	6.43	75	28	40.6	1	0.91
6	... ..	7.0	5	0	8	30.55	153	26	7.7	5	0.83
7	... ..	8.0	1	0	10	23.75	153	49	24.3	1	0.76
8	Stone 88 ...	8.0	5	0	10	46.80	157	21	11.1	5	0.86
9	8 Ceti ...	3.6	...	0	13	21.78	99	29	2.6	9	0.83
10	... ..	8.1	5	0	15	17.36	155	46	28.9	5	0.85
11	Lacaille 56 ...	7.6	4	0	15	47.21	144	55	24.8	5	0.82
12	... ..	8.0	1	0	17	31.62	155	46	50.4	2	0.87
13	... ..	8.0	3	0	19	34.48	148	55	33.3	3	0.83
14	... ..	8.0	4	0	20	5.62	158	24	16.7	5	0.86
15	... ..	8.4	5	0	22	49.03	156	34	16.7	5	0.83
16	Taylor 103 ...	6.5	5	0	22	57.81	141	11	32.7	5	0.81
17	12 Ceti ...	6.2	...	0	23	57.91	94	36	56.3	2	0.81
18	... ..	8.0	5	0	28	2.24	154	20	4.1	5	0.83
19	Lacaille 132 ...	8.0	1	0	28	5.69	151	48	15.0	1	0.76
20	... ..	8.8	5	0	29	26.71	154	20	6.5	5	0.82
21	31 Andromedæ δ ...	3.4	...	0	32	57.91	59	47	25.2	5	0.95
22	Lacaille 179 ...	8.3	5	0	35	47.58	158	50	28.6	5	0.80
23	... ..	8.2	5	0	36	51.40	152	1	7.1	5	0.81
24	16 Ceti β ...	2.1	...	0	37	36.76	108	38	25.7	3	0.85
25	24 Cassiopeia η —1st	3.6	...	0	41	54.84	32	48	55.0	1	0.92
26	24 Cassiopeia η —2nd	8.0	3	0	41	54.88	32	49	3.4	2	0.92
27	63 Piscium δ ...	4.6	...	0	42	30.45	83	3	45.1	12	0.89
28	... ..	7.5	5	0	43	43.51	151	1	13.4	5	0.81
29	... ..	7.9	4	0	47	40.02	154	23	26.1	5	0.82
30	27 Cassiopeia γ ...	2.3	...	0	49	32.30	29	55	38.9	2	0.96
31	... ..	8.3	5	0	49	33.47	132	37	26.3	5	0.86
32	... ..	7.8	4	0	51	15.49	148	13	56.0	5	0.85
33	2 Ursæ Minoris ...	4.5	...	0	52	42.55	4	22	56.7	2	0.79
34	R. P. L. 14 ...	6.2	...	0	56	20.00	3	29	20.9	2	0.96
35	71 Piscium ϵ ...	4.5	...	0	56	46.04	82	45	3.5	3	0.89

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	21 Andromedæ α ...	+ 3.0794	+ 0.0182	+ 0.010	- 20.053	+ 0.013	+ 0.16	3215
2	... ..	+ 3.0546	- 0.0305	...	- 20.052	+ 0.013	...	...
3	... ..	+ 3.0231	- 0.0574	...	- 20.051	+ 0.016	...	...
4	... ..	+ 3.0157	- 0.0481	...	- 20.049	+ 0.019	...	...
5	88 Pegasi γ ...	+ 3.0830	+ 0.0100	- 0.001	- 20.045	+ 0.022	+ 0.01	1
6	... ..	+ 2.9731	- 0.0537	...	- 20.040	+ 0.025	...	...
7	... ..	+ 2.9401	- 0.0540	...	- 20.032	+ 0.027	...	...
8	Stone 88 ...	+ 2.9216	- 0.0622	...	- 20.031	+ 0.029	...	...
9	8 Ceti ϵ ...	+ 3.0594	- 0.0023	- 0.003	- 20.020	+ 0.034	+ 0.03	14
10	... ..	+ 2.8742	- 0.0551	...	- 20.011	+ 0.036	...	...
11	Lucaille 56 ...	+ 2.9412	- 0.0360	...	- 20.007	+ 0.038	...	...
12	... ..	+ 2.8452	- 0.0537	...	- 19.996	+ 0.040	...	...
13	... ..	+ 2.8831	- 0.0404	...	- 19.980	+ 0.044	...	...
14	... ..	+ 2.7766	- 0.0578	...	- 19.976	+ 0.044	...	...
15	... ..	+ 2.7666	- 0.0517	...	- 19.955	+ 0.049	...	...
16	Taylor 103 ...	+ 2.9061	- 0.0297	...	- 19.953	+ 0.051	...	...
17	12 Ceti ...	+ 3.0610	+ 0.0008	- 0.000	- 19.945	+ 0.055	+ 0.01	38
18	... ..	+ 2.7327	- 0.0447	...	- 19.904	+ 0.057	...	...
19	Lucaille 132 ...	+ 2.7675	- 0.0413	...	- 19.903	+ 0.057	...	...
20	... ..	+ 2.7158	- 0.0438	...	- 19.888	+ 0.059	...	...
21	31 Andromedæ δ ...	+ 3.1839	+ 0.0221	+ 0.010	- 19.846	+ 0.075	+ 0.08	57
22	Lucaille 179 ...	+ 2.5351	- 0.0457	...	- 19.810	+ 0.066	...	...
23	... ..	+ 2.6694	- 0.0369	...	- 19.795	+ 0.071	...	...
24	16 Ceti β ...	+ 2.9987	- 0.0055	+ 0.015	- 19.784	+ 0.080	- 0.03	70
25	24 Cassiopeia η -1st.	+ 3.4492	+ 0.0006	+ 0.135	- 19.719	+ 0.099	+ 0.48	79
26	24 Cassiopeia η -2nd.	+ 3.4493	+ 0.0006	+ 0.135	- 19.718	+ 0.099	+ 0.48	79
27	63 Piscium δ	+ 3.1023	+ 0.0079	+ 0.004	- 19.711	+ 0.091	+ 0.04	85
28	... ..	+ 2.6146	- 0.0328	...	- 19.690	+ 0.083	...	...
29	... ..	+ 2.4964	- 0.0336	...	- 19.622	+ 0.083	...	...
30	27 Cassiopeia γ ...	+ 3.5704	+ 0.0714	+ 0.001	- 19.587	+ 0.119	+ 0.02	99
31	... ..	+ 2.8083	- 0.0176	...	- 19.587	+ 0.095	...	...
32	... ..	+ 2.5934	- 0.0277	...	- 19.554	+ 0.092	...	...
33	2 Ursæ Minoris ...	+ 7.0484	+ 1.3650	+ 0.068	- 19.526	+ 0.242	+ 0.01	92
34	R. P. L. 14 ...	+ 8.4075	+ 2.1288	+ 0.054	- 19.461	+ 0.306	+ 0.02	95
35	71 Piscium ϵ	+ 3.1140	+ 0.0087	- 0.007	- 19.442	+ 0.119	- 0.04	113

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	... .. 2nd.	8.0	5	0	56	52.76	132	45	59.3	5	0.82
37	.. .. .	8.0	2	0	57	27.83	147	58	56.0	5	0.85
38	30 Cassiopeæ μ	5.2	...	1	0	21.80	35	39	52.5	5	0.93
39	... .. .	9.0	5	1	2	5.61	150	36	10.8	5	0.86
40	43 Andromedæ β	2.2	...	1	3	4.27	55	0	37.8	3	0.96
41	... .. .	9.0	5	1	6	8.52	134	21	43.2	5	0.85
42	... .. .	8.0	4	1	9	27.53	151	38	23.4	5	0.88
43	Stone 487	7.0	4	1	10	35.20	124	46	40.9	5	0.92
44	... .. .	7.7	3	1	10	51.69	152	44	23.0	5	0.86
45	B. P. L. 18	7.9	...	1	13	7.61	2	3	31.3	2	0.38
46	1 Ursæ Min. α (<i>Polaris</i>)...	2.2	...	1	15	6.39	1	19	32.8	1	0.38
47	... .. .	9.5	4	1	16	55.06	122	55	23.1	5	0.87
48	45 Ceti θ^1	3.8	...	1	18	4.46	98	47	52.8	3	0.93
49	Taylor 454	7.0	4	1	18	39.53	122	25	52.5	5	0.85
50	... .. .	9.4	5	1	19	10.06	123	10	58.1	5	0.89
51	... .. .	9.4	4	1	19	30.35	123	28	35.5	4	0.95
52	... .. .	10.0	1	1	20	1.58	122	56	55.3	1	0.96
53	... .. .	...	...	1	20	59.85	123	10	12.4	1	0.90
54	... .. .	9.0	4	1	22	59.30	123	37	58.6	4	0.92
55	... .. .	9.0	5	1	23	24.98	122	39	17.2	5	0.80
56	... .. .	8.0	1	1	23	42.43	131	15	49.9	1	0.89
57	... .. .	9.0	4	1	24	30.50	123	39	57.7	5	0.84
58	99 Piscium η	3.7	...	1	25	6.89	75	16	4.1	2	0.96
59	Stone 625	6.6	5	1	29	24.92	122	30	3.0	5	0.93
60	... .. .	8.0	4	1	30	25.43	130	26	51.8	5	0.86
61	Taylor 552	7.5	4	1	34	11.39	144	2	32.9	5	0.87
62	106 Piscium ν	4.7	...	1	35	14.32	85	6	53.2	4	0.71
63	Lacaille 490	7.0	4	1	35	18.99	127	4	54.9	5	0.90
64	... .. .	9.0	4	1	37	41.56	126	7	30.8	5	0.93
65	110 Piscium σ	4.4	...	1	39	6.59	81	26	30.9	5	0.75
66	Lacaille 541	7.0	3	1	45	50.85	121	29	41.4	5	0.86
67	Stone 739	6.5	5	1	46	21.97	130	25	26.9	5	0.95
68	... .. .	7.5	4	1	47	8.39	130	15	41.0	5	0.91
69	6 Arietis β	2.8	...	1	48	3.97	69	46	27.9	4	0.25
70	Stone 762	6.7	3	1	50	46.57	126	49	40.9	3	0.97

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
36	... .. 2nd.	+ 2.7686	- 0.0165	...	- 19.440	+ 0.106	...	...
37	... ..	+ 2.5418	- 0.0252	...	- 19.427	+ 0.100	...	...
38	30 Cassiopeiæ μ ...	+ 3.5571	+ 0.0577	+ 0.386	- 19.364	+ 0.142	+ 1.58	118
39	... ..	+ 2.4372	- 0.0245	...	- 19.323	+ 0.103	...	...
40	43 Andromedæ β ...	+ 3.3266	+ 0.0286	+ 0.014	- 19.300	+ 0.139	+ 0.08	140
41	... ..	+ 2.7002	- 0.0157	...	- 19.224	+ 0.120	...	...
42	... ..	+ 2.3331	- 0.0216	...	- 19.140	+ 0.109	...	...
43	Stone 487 ...	+ 2.7909	- 0.0105	...	- 19.112	+ 0.131	...	...
44	... ..	+ 2.2827	- 0.0209	...	- 19.102	+ 0.109	...	...
45	R. P. L. 18 ...	+ 14.7402	+ 6.7836	...	- 19.041	+ 0.682	...	...
46	1 Ursæ Minoris α ...	+ 21.6620	+ 16.0075	+ 0.108	- 18.987	+ 1.025	+ 0.00	102
47	... ..	+ 2.7872	- 0.0089	...	- 18.935	+ 0.142	...	...
48	45 Ceti θ^1 ...	+ 3.0032	+ 0.0018	- 0.007	- 18.902	+ 0.154	+ 0.20	184
49	Taylor 454 ...	+ 2.7885	- 0.0083	...	- 18.885	+ 0.141	...	...
50	... ..	+ 2.7763	- 0.0087	...	- 18.869	+ 0.145	...	...
51	... ..	+ 2.7717	- 0.0088	...	- 18.859	+ 0.145	...	...
52	... ..	+ 2.7759	- 0.0086	...	- 18.844	+ 0.146	...	...
53	... ..	+ 2.7699	- 0.0085	...	- 18.814	+ 0.147	...	...
54	... ..	+ 2.7573	- 0.0085	...	- 18.754	+ 0.151	...	...
55	... ..	+ 2.7573	- 0.0080	...	- 18.740	+ 0.151	...	...
56	... ..	+ 2.6532	- 0.0114	...	- 18.731	+ 0.146	...	...
57	... ..	+ 2.7514	- 0.0083	...	- 18.706	+ 0.152	...	...
58	99 Piscium η ...	+ 3.1998	+ 0.0141	- 0.000	- 18.686	+ 0.177	+ 0.00	203
59	Stone 625 ...	+ 2.7484	- 0.0074	...	- 18.546	+ 0.160	...	...
60	... ..	+ 2.6342	- 0.0102	...	- 18.514	+ 0.155	...	...
61	Taylor 552 ...	+ 2.3359	- 0.0127	...	- 18.384	+ 0.142	...	...
62	106 Piscium ν ...	+ 3.1184	+ 0.0091	- 0.003	- 18.348	+ 0.191	- 0.01	228
63	Lacaille 490 ...	+ 2.6641	- 0.0083	...	- 18.344	+ 0.165	...	...
64	... ..	+ 2.6688	- 0.0077	...	- 18.259	+ 0.169	...	...
65	110 Piscium σ ...	+ 3.1567	+ 0.0111	+ 0.003	- 18.208	+ 0.200	- 0.06	232
66	Lacaille 541 ...	+ 2.7074	- 0.0054	...	- 17.953	+ 0.184	...	...
67	Stone 739 ...	+ 2.5625	- 0.0079	...	- 17.932	+ 0.175	...	...
68	... ..	+ 2.5620	- 0.0078	...	- 17.902	+ 0.176	...	...
69	6 Arietis β ...	+ 3.2961	+ 0.0183	+ 0.005	- 17.865	+ 0.226	+ 0.10	252
70	Stone 762 ...	+ 2.6070	- 0.0064	...	- 17.756	+ 0.184	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
71	Stone 779	8.0	5	1	52	32.81	131	13	4.7	5	0.95
72	Stone 786	6.9	2	1	53	29.70	131	44	55.9	5	0.90
73	... ..	9.0	2	1	55	40.73	87	41	50.1	2	0.97
74	O. A. S. 1255	7.0	4	1	57	8.33	120	14	23.8	5	0.86
75	... ..	7.1	5	1	58	45.63	131	2	33.7	5	0.96
76	... ..	9.1	5	2	0	7.98	87	56	19.7	5	0.91
77	Lacaille 830	6.5	1	2	0	24.59	145	27	5.5	1	0.91
78	Stone 837	7.0	4	2	1	34.13	127	41	10.3	4	0.97
79	Lacaille 658	8.0	2	2	5	30.37	126	4	17.7	5	0.89
80	... ..	8.0	4	2	6	47.38	132	25	46.2	4	0.96
81	W. B. E. II. 104	9.0	3	2	8	56.78	86	42	6.9	3	0.96
82	Taylor 750... ..	6.3	3	2	9	42.89	131	43	19.8	4	0.87
83	W. B. E. II. 126	8.1	4	2	10	19.63	86	37	3.7	4	0.93
84	67 Ceti	5.5	...	2	11	2.87	96	58	15.7	7	0.14
85	Stone 914	6.8	2	2	12	17.06	126	32	10.6	2	0.94
86	W. B. E. II. 161	7.1	5	2	12	29.26	86	21	9.7	5	0.93
87	W. B. E. II. 177	7.8	2	2	13	18.43	87	43	39.1	2	0.94
88	Stone 938	6.5	4	2	16	37.11	147	19	46.5	4	0.96
89	Lacaille 731	6.3	4	2	19	46.27	131	23	1.5	5	0.87
90	73 Ceti ξ^2	4.4	...	2	21	49.89	82	4	26.4	3	0.60
91	... ..	9.2	3	2	22	20.24	85	23	20.8	3	0.94
92	Stone 1018	7.0	5	2	27	50.37	136	23	47.2	5	0.92
93	... ..	8.0	5	2	29	20.29	132	23	47.9	5	0.97
94	Stone 1073	7.5	1	2	34	51.76	143	27	58.4	1	0.99
95	Stone 1080	6.7	5	2	35	15.33	143	26	58.5	5	0.95
96	86 Ceti γ —2nd	3.6	...	2	37	8.08	87	15	59.4	11	0.62
97	Stone 1106	6.0	4	2	37	51.18	137	1	45.8	5	0.91
98	Stone 1145	7.6	5	2	42	11.81	127	50	41.2	5	0.94
99	γ Horologii	6.1	...	2	42	55.06	154	12	15.7	1	0.01
100	ζ Hydri	5.2	...	2	43	43.20	158	7	2.4	4	0.04
101	γ Fornacis	6.4	...	2	44	34.60	115	3	0.4	4	0.02
102	43 Arietis σ	5.5	...	2	44	55.29	75	24	33.0	12	0.91
103	Stone 1185	5.8	5	2	48	54.56	128	55	27.0	5	0.96
104	3 Eridani η	4.0	...	2	50	36.68	99	22	22.8	1	0.93
105	Stone 1233	6.9	5	2	54	39.75	134	13	5.2	5	0.90

73—76—87.—Comparison stars for Sylvia in 1881.

83—86—91.—Comparison stars for Camilla in 1881.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
71	Stone 779 ...	+ 2.5201	- 0.0073	...	- 17.684	+ 0.181	...	...
72	Stone 786 ...	+ 2.5053	- 0.0073	...	- 17.645	+ 0.181	...	...
73	... ..	+ 3.0983	+ 0.0084	...	- 17.553	+ 0.226	...	...
74	O. A. S. 1255 ...	+ 2.6911	- 0.0038	...	- 17.491	+ 0.200	...	...
75	... ..	+ 2.4958	- 0.0065	...	- 17.421	+ 0.187	...	...
76	... ..	+ 3.0489	+ 0.0066	...	- 17.361	+ 0.229	...	...
77	Lacaille 630 ...	+ 2.0986	- 0.0059	...	- 17.349	+ 0.160	...	...
78	Stone 837 ...	+ 2.5498	- 0.0054	...	- 17.298	+ 0.195	...	...
79	Lacaille 658 ...	+ 2.5652	- 0.0046	...	- 17.121	+ 0.201	...	...
80	... ..	+ 2.4302	- 0.0055	...	- 17.061	+ 0.193	...	...
81	W. B. E. II. 104 ...	+ 3.1135	+ 0.0093	...	- 16.963	+ 0.249	...	...
82	Taylor 750 ...	+ 2.4331	- 0.0051	...	- 16.926	+ 0.197	...	...
83	W. B. E. II. 126 ...	+ 3.1149	+ 0.0093	...	- 16.898	+ 0.251	...	...
84	67 Ceti ...	+ 2.9839	+ 0.0049	+ 0.004	- 16.863	+ 0.242	+ 0.11	321
85	Stone 914 ...	+ 2.5318	- 0.0040	...	- 16.805	+ 0.208	...	...
86	W. B. E. II. 161 ...	+ 3.1189	+ 0.0095	...	- 16.797	+ 0.255	...	...
87	W. B. E. II. 177 ...	+ 3.1014	+ 0.0089	...	- 16.756	+ 0.255	...	...
88	Stone 938 ...	+ 1.9020	- 0.0008	...	- 16.595	+ 0.163	...	...
89	Lacaille 731 ...	+ 2.3976	- 0.0039	...	- 16.439	+ 0.207	...	...
90	73 Ceti ξ^3 ...	+ 3.1803	+ 0.0117	+ 0.001	- 16.335	+ 0.276	+ 0.00	347
91	... ..	+ 3.1350	+ 0.0101	...	- 16.310	+ 0.273	...	...
92	Stone 1018 ...	+ 2.2283	- 0.0028	...	- 16.025	+ 0.202	...	...
93	... ..	+ 2.3321	- 0.0028	...	- 15.944	+ 0.213	...	...
94	Stone 1073 ...	+ 1.9437	+ 0.0004	...	- 15.648	+ 0.184	...	...
95	Stone 1080 ...	+ 1.9420	+ 0.0004	...	- 15.626	+ 0.184	...	...
96	86 Ceti γ -2nd ...	+ 3.1128	+ 0.0094	- 0.011	- 15.522	+ 0.294	+ 0.16	383
97	Stone 1106 ...	+ 2.1602	- 0.0014	...	- 15.483	+ 0.207	...	...
98	Stone 1145 ...	+ 2.3970	- 0.0010	...	- 15.238	+ 2.234	...	...
99	γ Horologii ...	+ 1.2675	+ 0.0175	...	- 15.196	+ 0.127	...	...
100	ζ Hydri ...	+ 0.8918	+ 0.0329	+ 0.012	- 15.151	+ 0.092	- 0.08	Stone
101	γ Fornacis ...	+ 2.6611	+ 0.0008	...	- 15.101	+ 0.261	...	...
102	43 Arietis σ ...	+ 3.3017	+ 0.0150	- 0.000	- 15.082	+ 0.323	+ 0.04	400
103	Stone 1185 ...	+ 2.3468	- 0.0008	...	- 14.850	+ 0.236	...	...
104	3 Eridani η ...	+ 2.9231	+ 0.0052	+ 0.004	- 14.749	+ 0.294	+ 0.22	413
105	Stone 1238 ...	+ 2.1741	+ 0.0001	...	- 14.507	+ 0.225	...	...

Mean Positions of Stars for 1881, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
106	... ..	8.0	5	2	55	35.67	125	34	2.7	5	0.96
107	92 Ceti <i>α</i> (<i>Menkar</i>)	2.7	...	2	56	3.54	86	22	40.7	11	0.37
108	Stone 1279	6.8	3	3	1	14.59	127	48	4.4	3	0.97
109	... ..	7.0	3	3	1	16.25	150	25	49.1	3	0.93
110	... ..	7.0	2	3	3	29.59	129	45	20.8	2	0.95
111	R. P. L. 33	5.8	...	3	4	23.28	5	30	53.7	1	0.49
112	57 Arietis <i>δ</i>	4.5	...	3	4	49.52	70	43	26.3	7	0.31
113	... ..	7.0	1	3	8	25.73	127	24	25.4	1	0.99
114	Stone 1354	6.6	5	3	11	4.60	136	6	38.6	4	0.96
115	Stone 1364	6.5	2	3	12	10.33	149	57	13.9	2	0.94
116	<i>ε</i> Eridani	4.4	...	3	15	10.54	133	31	31.1	1	0.95
117	... ..	7.0	2	3	18	12.99	127	0	10.0	2	0.98
118	1 Tauri <i>α</i> , Var. 5	Var.	...	3	18	24.61	81	23	26.0	13	0.25
119	... ..	7.0	4	3	19	5.54	134	39	23.4	4	0.94
120	... ..	8.0	2	3	20	19.38	149	21	25.5	2	0.94
121	... ..	8.0	1	3	20	56.81	149	24	52.3	1	0.95
122	... ..	10.0	2	3	21	22.16	71	55	56.8	3	0.01
123	Stone 1430	7.0	1	3	21	23.28	126	22	35.1	1	0.98
124	... ..	7.5	1	3	27	10.44	126	6	36.1	1	0.98
125	18 Eridani <i>ε</i>	3.7	...	3	27	19.43	99	51	44.5	13	0.27
126	R. P. L. 34	...	...	3	27	40.49	3	43	53.0	6	0.32
127	... ..	8.0	3	3	29	4.15	143	30	9.0	3	0.96
128	... ..	7.0	1	3	31	54.26	125	11	0.0	1	0.97
129	... ..	8.0	1	3	34	54.03	124	22	22.7	1	0.98
130	Stone 1541	8.0	1	3	36	49.97	146	31	58.5	1	0.93
131	Stone 1550	7.3	2	3	37	38.04	146	56	7.9	2	0.97
132	<i>γ</i> Camelopardi	4.6	...	3	37	49.17	19	2	9.8	4	0.06
133	<i>ν</i> Eridani	4.8	...	3	38	25.38	127	41	22.8	5	0.07
134	Radcliffe 1053	...	...	3	38	38.15	24	50	39.0	2	0.05
135	20 Tauri (<i>Maia</i>)	4.0	...	3	38	44.77	66	0	19.5	2	0.01
136	21 Tauri (<i>κ</i> <i>Asterope</i>)	7.0	2	3	38	49.05	65	49	5.8	2	0.06
137	22 Tauri (<i>ι</i> <i>Asterope</i>)	7.0	4	3	38	57.56	65	50	40.0	4	0.08
138	23 Tauri (<i>Merope</i>)	4.2	...	3	39	15.86	66	25	24.3	3	0.10
139	24 Tauri	7.3	2	3	40	16.64	66	15	11.9	2	0.07
140	25 Tauri <i>η</i> (<i>Alcyone</i>)	3.0	...	3	40	24.65	66	15	51.9	2	0.98

111.—Groombridge 595.

122.—Comparison star for Mars in 1879.

826.—Groombridge 642.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
106	... ..	+ 2.4095	+ 0.0005	...	- 14.450	+ 0.249	...	..
107	92 Ceti α ...	+ 3.1311	+ 0.0008	- 0.003	- 14.422	+ 0.323	+ 0.07	428
108	Stone 1279 ...	+ 2.3350	+ 0.0002	...	- 14.103	+ 0.248	...	...
109	... ..	+ 1.3969	+ 0.0124	...	- 14.065	+ 0.151	...	...
110	... ..	+ 2.2740	+ 0.0004	...	- 13.962	+ 0.244	...	...
111	R. P. L. 33 ...	+ 13.0485	+ 1.6119	+ 0.044	- 13.905	+ 1.374	+ 0.12	402
112	57 Arietis δ ...	+ 3.4099	+ 0.0171	+ 0.010	- 13.878	+ 0.304	- 0.01	446
113	... ..	+ 2.3232	+ 0.0007	...	- 13.650	+ 0.254	...	...
114	Stone 1354 ...	+ 2.0432	+ 0.0019	...	- 13.478	+ 0.226	...	...
115	Stone 1304 ...	+ 1.3535	+ 0.0132	...	- 13.408	+ 0.153	...	...
116	ϵ Eridani ...	+ 2.1170	+ 0.0017	+ 0.266	- 13.212	+ 0.238	- 0.75	Stone
117	... ..	+ 2.3056	+ 0.0013	...	- 13.009	+ 0.262	...	...
118	1 Tauri ϵ , Var. 5 ...	+ 3.2265	+ 0.0115	- 0.005	- 12.996	+ 0.364	+ 0.07	477
119	... ..	+ 2.0637	+ 0.0019	...	- 12.953	+ 0.241	...	...
120	... ..	+ 1.3326	+ 0.0133	...	- 12.827	+ 0.155	...	...
121	... ..	+ 1.3336	+ 0.0133	...	- 12.826	+ 0.155	...	...
122	... ..	+ 3.4081	+ 0.0158	...	- 12.799	+ 0.387	...	...
123	Stone 1430 ...	+ 2.3141	+ 0.0015	...	- 12.798	+ 0.205	...	...
124	... ..	+ 2.3060	+ 0.0018	...	- 12.404	+ 0.269	...	...
125	18 Eridani ϵ ...	+ 2.8896	+ 0.0055	- 0.068	- 12.393	+ 0.336	- 0.01	403
126	R. P. L. 34 ...	+ 19.2088	+ 3.2510	+ 0.136	- 12.369	+ 2.211	+ 0.06	Gr.
127	... ..	+ 1.3467	+ 0.0126	...	- 12.272	+ 0.160	...	...
128	... ..	+ 2.3198	+ 0.0020	...	- 12.075	+ 0.275	...	...
129	... ..	+ 2.3352	+ 0.0055	...	- 11.865	+ 0.279	...	...
130	Stone 1541 ...	+ 1.4318	+ 0.0106	...	- 11.729	+ 0.174	...	...
131	Stone 1550 ...	+ 1.4024	+ 0.0111	...	- 11.672	+ 0.174	...	...
132	γ Camelopardi ...	+ 6.2250	+ 0.1605	- 0.002	- 11.659	+ 0.741	+ 0.05	Romberg
133	ν^1 Eridani ...	+ 2.2303	+ 0.0024	...	- 11.615	+ 0.270	...	...
134	Radeliffe 1053 ...	+ 5.4278	+ 0.1016	...	- 11.600	+ 0.649	...	...
135	20 Tauri ...	+ 3.5580	+ 0.0179	+ 0.000	- 11.592	+ 0.428	+ 0.04	512
136	21 Tauri ...	+ 3.5623	+ 0.0181	+ 0.000	- 11.587	+ 0.427	+ 0.04	513
137	22 Tauri ...	+ 3.5619	+ 0.0181	+ 0.001	- 11.577	+ 0.429	+ 0.04	514
138	23 Tauri ...	+ 3.5492	+ 0.0177	- 0.001	- 11.555	+ 0.427	+ 0.04	516
139	24 Tauri ...	+ 3.5546	+ 0.0177	- 0.002	- 11.483	+ 0.429	+ 0.06	520
140	25 Tauri ...	+ 3.5545	+ 0.0177	- 0.000	- 11.473	+ 0.430	+ 0.04	521

126.—Proper motions from *Greenwich Catalogue*, 1880.

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
141	Taylor 1804	6.1	...	3	41	34.11	137	43	52.9	1	0.03
142	Stone 1608... ..	6.9	...	3	43	57.49	141	7	8.2	3	0.95
143	Stone 1620... ..	7.5	2	3	45	8.84	147	59	44.6	2	0.94
144	... ..	8.0	3	3	45	27.31	124	23	23.1	3	0.97
145	W Tauri, Var.	8.0	3	3	46	49.10	82	34	56.7	3	0.01
146	34 Eridani γ^1	8.0	...	3	52	28.59	103	50	52.5	3	0.36
147	Stone 1686... ..	7.1	5	3	52	38.39	142	35	35.5	5	0.95
148	... ..	8.0	...	3	53	23.48	124	51	14.0	1	0.98
149	Stone 1710... ..	6.7	...	3	57	29.15	124	48	50.5	1	0.97
150	37 Tauri A ¹	4.4	...	3	57	39.58	68	14	40.6	12	0.20
151	... ..	8.0	2	3	59	15.41	128	55	51.4	2	0.96
152	R. P. L. 35... ..	6.7	...	3	59	39.91	4	45	36.2	4	0.07
153	... ..	7.0	3	4	0	36.34	131	36	25.4	3	0.96
154	Stone 1757... ..	6.9	...	4	3	17.84	127	22	47.2	1	0.98
155	... ..	8.0	1	4	5	7.03	126	58	0.8	1	0.97
156	38 Eridani α^1	4.1	...	4	6	3.39	97	8	55.6	5	0.26
157	δ Horologii	5.3	...	4	6	49.91	132	18	18.4	1	0.95
158	... ..	8.5	...	4	7	29.16	150	36	48.1	1	0.96
159	... ..	9.0	2	4	10	8.92	128	37	3.3	2	0.97
160	54 Tauri γ	3.9	...	4	13	1.30	74	39	39.5	5	0.08
161	... ..	8.0	4	4	16	10.11	125	22	13.5	4	0.95
162	74 Tauri ϵ	3.7	...	4	21	40.07	71	5	4.5	3	0.09
163	Stone 1895	8.1	3	4	22	13.11	128	51	19.8	3	0.95
164	... ..	8.0	1	4	25	6.01	125	32	55.2	1	0.97
165	Stone 1961	8.0	1	4	28	52.43	128	32	8.6	1	0.98
166	... ..	8.0	1	4	29	8.37	126	35	38.9	1	0.96
167	... ..	8.5	1	4	34	25.71	130	49	36.1	1	0.98
168	... ..	7.5	1	4	35	32.88	125	52	43.0	1	0.97
169	Lacaille 1566	6.8	...	4	36	3.15	148	26	20.1	1	0.96
170	57 Eridani μ	4.3	...	4	39	33.19	93	28	25.0	6	0.08
171	... ..	7.0	3	4	43	4.08	126	25	20.3	3	0.96
172	ι Pictoris	5.8	...	4	48	16.10	143	39	51.5	3	0.03
173	3 Aurigæ ϵ	2.7	...	4	49	14.56	57	1	25.7	2	0.54
174	R Eridani, Var.	Var.	...	4	49	58.04	106	36	41.7	3	0.01
175	... ..	9.5	1	4	52	34.05	131	48	44.4	1	0.96

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
141	Taylor 1304 ...	+ 1'8618	+ 0'0046	...	- 11'390	+ 0'228	...	...
142	Stone 1608 ...	+ 1'6980	+ 0'0063	...	- 11'216	+ 0'210	...	...
143	Stone 1620 ...	+ 1'2930	+ 0'0129	...	- 11'130	+ 0'162	...	...
144	... ..	+ 2'3105	+ 0'0025	...	- 11'108	+ 0'286	...	...
145	W Tauri, Var.	+ 3'2178	+ 0'0101	...	- 11'008	+ 0'397	...	...
146	34 Eridani γ^1	+ 2'7925	+ 0'0047	+ 0'003	- 10'591	+ 0'351	+ 0'11	546
147	Stone 1686 ...	+ 1'5872	+ 0'0076	...	- 10'579	+ 0'202	...	...
148	... ..	+ 2'2798	+ 0'0027	...	- 10'524	+ 0'288	...	...
149	Stone 1710 ...	+ 2'2724	+ 0'0029	...	- 10'218	+ 0'289	...	...
150	37 Tauri A ¹ ...	+ 3'5316	+ 0'0153	+ 0'005	- 10'204	+ 0'447	+ 0'06	554
151	... ..	+ 2'1388	+ 0'0031	...	- 10'084	+ 0'273	...	...
152	R. P. L. 35 ...	+ 16'9644	+ 1'8075	+ 0'002	- 10'052	+ 2'145	- 0'02	750
153	... ..	+ 2'0425	+ 0'0036	...	- 9'980	+ 0'262	...	...
154	Stone 1757 ...	+ 2'1805	+ 0'0032	...	- 9'776	+ 0'281	...	...
155	... ..	+ 2'1899	+ 0'0025	...	- 9'636	+ 0'307	...	...
156	38 Eridani α^1	+ 2'0249	+ 0'0058	- 0'001	- 9'564	+ 0'379	- 0'09	568
157	3 Horologii ...	+ 2'0009	+ 0'0039	+ 0'013	- 9'505	+ 0'261	+ 0'00	Stone
158	... ..	+ 0'9787	+ 0'0173	...	- 9'454	+ 0'130	...	...
159	... ..	+ 2'1247	+ 0'0034	...	- 9'251	+ 0'279	...	...
160	54 Tauri γ ...	+ 3'3998	+ 0'0115	+ 0'007	- 9'024	+ 0'446	+ 0'03	583
161	... ..	+ 2'2190	+ 0'0033	...	- 8'779	+ 0'295	...	...
162	74 Tauri ϵ ...	+ 3'4889	+ 0'0120	+ 0'007	- 8'343	+ 0'466	+ 0'03	609
163	Stone 1895 ...	+ 2'0918	+ 0'0036	...	- 8'299	+ 0'282	...	...
164	... ..	+ 2'1977	+ 0'0033	...	- 8'069	+ 0'296	...	...
165	Stone 1961 ...	+ 2'0906	+ 0'0036	...	- 7'765	+ 0'284	...	...
166	... ..	+ 2'1507	+ 0'0035	...	- 7'743	+ 0'293	...	...
167	... ..	+ 1'9967	+ 0'0040	...	- 7'315	+ 0'274	...	...
168	... ..	+ 2'1702	+ 0'0035	...	- 7'223	+ 0'298	...	...
169	Lacaille 1566	+ 1'0402	+ 0'0128	...	- 7'183	+ 0'144	...	...
170	57 Eridani μ	+ 2'9961	+ 0'0055	- 0'000	- 6'895	+ 0'413	+ 0'00	657
171	... ..	+ 2'1409	+ 0'0035	...	- 6'606	+ 0'298	...	...
172	ι Pictoris ...	+ 1'3430	+ 0'0079	...	- 6'175	+ 0'180	...	...
173	3 Aurigæ ι ...	+ 3'8987	+ 0'0144	+ 0'001	- 6'093	+ 0'544	+ 0'00	677
174	R Eridani ...	+ 2'6919	+ 0'0038	...	- 6'033	+ 0'377	...	...
175	... ..	+ 1'9278	+ 0'0040	...	- 5'816	+ 0'272	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
176	... ..	7.0	1	4	54	18.10	131	43	52.6	1	0.98
177	8 Eridani, Var. ...	Var.	...	4	54	24.00	102	42	50.9	8	0.03
178	11 Camelopardi ...	5.1	...	4	55	48.01	31	11	46.2	2	0.05
179	... ..	7.0	2	4	59	8.46	131	46	38.9	2	0.97
180	2 Leporis ϵ ...	3.3	...	5	0	25.39	112	31	55.3	4	0.10
181	... ..	8.0	1	5	5	30.57	129	21	15.9 ^{18.3}	1	0.97
182	19 Orionis β (<i>Rigel</i>) ...	0.3	...	5	8	49.19	98	20	24.7	1	0.11
183	... ..	8.0	1	5	12	45.63	128	48	29.0	1	0.97
184	27 Orionis ρ ...	5.2	...	5	18	25.96	91	0	25.6	5	0.05
185	112 Tauri β ...	1.9	...	5	18	46.16	61	29	40.6	7	0.11
186	31 Orionis, Var. ...	Var.	...	5	23	41.40	91	11	15.3	4	0.01
187	R. P. L. 40 ...	6.0	...	5	23	59.05	4	52	4.6	2	0.33
188	34 Orionis δ , Var. 1. ...	Var.	...	5	25	55.66	90	23	18.0	2	0.11
189	11 Leporis α ...	2.7	...	5	27	28.96	107	54	31.2	7	0.14
190	... ..	8.7	5	5	29	0.11	96	5	15.0	5	0.07
191	T Orionis, Var. ...	Var.	...	5	29	12.09	96	5	24.1	10	0.06
192	46 Orionis ϵ ...	1.8	...	5	30	10.54	91	16	45.8	1	0.11
193	123 Tauri ζ ...	3.0	...	5	30	31.99	68	55	53.6	7	0.18
194	50 Orionis ζ ...	1.9	...	5	34	45.33	92	0	26.5	5	0.17
195	α Columbæ ...	2.7	...	5	35	20.48	124	8	19.7	4	0.18
196	53 Orionis κ ...	2.2	...	5	42	6.72	99	42	48.3	18	0.12
197	β Columbæ ...	2.9	...	5	46	45.89	125	48	50.3	4	0.17
198	53 Orionis α (<i>Betalgeus</i>) ...	Var.	...	5	48	43.74	82	37	1.0	7	0.13
199	34 Aurigæ β ...	2.1	...	5	50	47.89	45	3	59.2	5	0.17
200	37 Aurigæ θ ...	2.7	...	5	51	36.85	52	47	47.1	4	0.17
201	W. B. N. V. 1681 ...	9.4	5	5	52	52.52	64	48	41.3	5	0.10
202	... ..	9.4	5	5	52	53.72	65	3	35.8	5	0.09
203	... ..	9.5	5	5	59	17.32	136	46	16.4	5	0.13
204	R. P. L. 43 ...	6.6	...	5	59	35.00	3	14	12.2	2	0.14
205	67 Orionis ν ...	4.4	...	6	0	46.66	75	13	4.9	10	0.13
206	7 Geminorum η ...	3.5	...	6	7	41.64	67	27	36.0	9	0.15
207	... ..	9.4	5	6	8	37.04	65	50	13.2	5	0.09
208	... ..	9.5	5	6	8	51.23	65	45	12.2	5	0.09
209	Lalande 12053 ...	9.0	1	6	13	25.00	68	51	34.7	1	0.17
210	... ..	9.5	5	6	14	0.23	150	36	32.1	5	0.13

187.—Groombridge 944.
204.—Groombridge 1004.

207—208.—Comparison stars for Isis in 1880.
209.—Comparison star for Ariadne in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
176	...	+ 1.9285	+ 0.0040	...	- 5.671	+ 0.272	...	...
177	S Eridani ...	+ 2.7829	+ 0.0040	...	- 5.062	+ 0.391	...	...
178	11 Camelopardi ...	+ 5.1941	+ 0.0372	- 0.001	- 5.544	+ 0.729	+ 0.01	691
179	...	+ 1.9199	+ 0.0064	...	- 5.263	+ 0.273	...	...
180	2 Leporis ε ...	+ 2.5363	+ 0.0033	+ 0.000	- 5.154	+ 0.359	+ 0.07	713
181	...	+ 2.0068	+ 0.0036	...	- 4.723	+ 0.286	...	...
182	19 Orionis β ...	+ 2.8811	+ 0.0040	- 0.001	- 4.441	+ 0.412	- 0.01	736
183	...	+ 2.0199	+ 0.0035	...	- 4.106	+ 0.290	...	...
184	27 Orionis ρ ...	+ 3.0492	+ 0.0041	- 0.001	- 3.618	+ 0.439	- 0.14	762
185	112 Tauri β ...	+ 3.7867	+ 0.0082	+ 0.001	- 3.588	+ 0.545	+ 0.18	756
186	31 Orionis ...	+ 3.0449	+ 0.0038	- 0.002	- 3.164	+ 0.439	+ 0.02	779
187	R. P. L. 40 ...	+ 18.5767	+ 0.6061	...	- 3.138	+ 2.676	...	...
188	34 Orionis δ ...	+ 3.0633	+ 0.0038	- 0.001	- 2.971	+ 0.443	+ 0.01	787
189	11 Leporis α ...	+ 2.6446	+ 0.0029	- 0.001	- 2.836	+ 0.383	- 0.01	796
190	...	+ 2.9311	+ 0.0034	...	- 2.705	+ 0.424	...	...
191	T Orionis ...	+ 2.9310	+ 0.0034	...	- 2.687	+ 0.425	...	...
192	46 Orionis ε ...	+ 3.0427	+ 0.0035	- 0.002	- 2.603	+ 0.441	- 0.01	809
193	123 Tauri ζ ...	+ 3.5831	+ 0.0053	- 0.001	- 2.571	+ 0.519	+ 0.02	800
194	50 Orionis ζ ...	+ 3.0257	+ 0.0033	- 0.001	- 2.205	+ 0.439	- 0.01	819
195	α Columbae ...	+ 2.1711	+ 0.0027	+ 0.005	- 2.154	+ 0.316	+ 0.03	Stone
196	53 Orionis κ ...	+ 2.8441	+ 0.0027	- 0.002	- 1.563	+ 0.414	- 0.00	844
197	β Columbae ...	+ 2.1093	+ 0.0026	+ 0.002	- 1.158	+ 0.308	- 0.39	Stone
198	58 Orionis α ...	+ 3.2454	+ 0.0027	+ 0.001	- 0.986	+ 0.473	- 0.02	860
199	34 Aurigae β ...	+ 4.4051	+ 0.0041	- 0.007	- 0.805	+ 0.642	+ 0.01	859
200	37 Aurigae θ ...	+ 4.0864	+ 0.0035	+ 0.004	- 0.734	+ 0.596	+ 0.08	863
201	W. B. N. V. 1681 ...	+ 3.7003	+ 0.0026	...	- 0.623	+ 0.540	...	...
202	...	+ 3.6938	+ 0.0026	...	- 0.622	+ 0.538	...	...
203	...	+ 1.6501	+ 0.0025	...	- 0.061	+ 0.241	...	...
204	R. P. L. 43 ...	+ 26.7130	+ 0.0074	...	+ 0.036	+ 3.896	...	...
205	67 Orionis ν ...	+ 3.4251	+ 0.0017	- 0.000	+ 0.068	+ 0.500	+ 0.01	887
206	7 Geminorum η ...	+ 3.6268	+ 0.0007	- 0.005	+ 0.674	+ 0.529	+ 0.00	909
207	...	+ 3.6716	+ 0.0004	...	+ 0.754	+ 0.535	...	...
208	...	+ 3.6740	+ 0.0004	...	+ 0.772	+ 0.535	...	...
209	Lalande 12053 ...	+ 3.5883	+ 0.0002	...	+ 1.145	+ 0.523	...	...
210	...	+ 0.7032	+ 0.0003	...	+ 1.223	+ 0.101	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
211	... ..	7.5	5	6	14	25.61	144	34	21.2	5	0.15
212	... ..	8.6	5	6	15	10.76	138	39	3.4	5	0.16
213	1 Canis Majoris ζ...	3.0	...	6	15	44.76	120	0	43.1	5	0.19
214	13 Geminorum μ ...	3.2	...	6	15	45.62	67	25	35.3	4	0.10
215	Taylor 2466 ...	6.5	3	6	16	53.13	138	40	44.4	5	0.18
216	2 Canis Majoris β	2.0	...	6	17	27.53	107	53	53.0	5	0.21
217	α Argūs (<i>Canopus</i>)	0.4	...	6	21	18.59	142	37	53.9	9	0.19
218	λ Canis Majoris ...	4.6	...	6	23	45.59	122	30	23.3	3	0.18
219	Taylor 2524 ...	7.5	...	6	24	0.01	131	3	37.3	4	0.19
220	... ..	8.2	5	6	24	52.96	148	8	54.1	5	0.12
221	Lacaille 2348 ...	6.8	5	6	26	41.49	152	4	20.5	5	0.16
222	... ..	7.6	5	6	29	50.01	138	26	59.4	5	0.13
223	24 Geminorum γ ...	2.0	...	6	30	50.19	73	30	2.9	7	0.16
224	ν Argūs ...	3.5	...	6	34	7.29	133	5	34.0	5	0.17
225	Taylor 2629 ...	7.0	5	6	34	36.95	139	25	27.3	5	0.14
226	... ..	8.6	5	6	35	34.46	148	4	42.3	5	0.11
227	Lalande 12863 ...	7.0	2	6	35	36.03	83	32	34.4	5	0.22
228	27 Geminorum ε ...	3.2	...	6	36	36.57	64	45	10.1	8	0.19
229	31 Geminorum ξ ...	3.4	...	6	38	36.61	76	58	37.7	6	0.13
230	9 Canis Maj. α (<i>Sirius</i>)	- 1.4	...	6	39	54.20	106	33	16.5	6	0.20
231	10 Canis Majoris ...	5.2	...	6	39	56.83	120	56	57.7	1	0.15
232	... ..	9.2	5	6	42	56.30	144	1	33.9	5	0.13
233	51 Cephei (<i>Hew</i>) ...	5.3	...	6	44	16.91	2	46	22.2	2	0.65
234	14 Canis Majoris θ	4.2	...	6	48	39.67	101	53	25.3	26	0.16
235	Taylor 2767 ...	7.0	...	6	50	15.43	143	50	33.7	5	0.13
236	21 Canis Majoris ε	1.5	...	6	53	56.98	118	48	39.7	6	0.17
237	43 Geminorum ζ ³ , Var. 1.	Var.	...	6	57	3.04	69	15	23.0	3	0.22
238	Lacaille 2606 ...	8.0	5	6	58	0.27	146	44	19.7	5	0.13
239	23 Canis Majoris γ	4.1	...	6	58	22.55	105	27	30.9	10	0.14
240	Lalande 13707 ...	8.2	2	6	59	7.48	67	8	3.4	3	0.18
241	... ..	8.4	5	7	1	59.60	138	53	34.5	5	0.13
242	25 Canis Majoris δ	1.8	...	7	3	33.10	116	12	20.3	5	0.21
243	Radcliffe 1887 ...	4.5	...	7	5	56.75	7	21	51.3	2	0.69
244	Lacaille 2702 ...	7.0	5	7	9	35.38	145	57	21.7	5	0.14
245	L ^a Puppis, Var. ...	Var.	...	7	9	54.35	134	26	48.7	5	0.08

Observed with the Madras Meridian Circle in that Year.

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
211	... ..	+ 1.1967	+ 0.0013	...	+ 1.262	+ 0.174	...	...
212	... ..	+ 1.5565	+ 0.0018	...	+ 1.328	+ 0.226	...	...
213	1 Canis Majoris ζ ...	+ 2.3019	+ 0.0019	+ 0.000	+ 1.376	+ 0.334	- 0.01	983
214	13 Geminorum μ ...	+ 3.6268	- 0.0003	+ 0.004	+ 1.377	+ 0.527	+ 0.10	929
215	Taylor 2466 ...	+ 1.5559	+ 0.0016	...	+ 1.483	+ 0.225	...	...
216	2 Canis Majoris β ...	+ 2.6418	+ 0.0016	- 0.002	+ 1.526	+ 0.383	- 0.00	936
217	α Argus ...	+ 1.3294	+ 0.0010	0.000	+ 1.863	+ 0.192	0.00	Stone
218	λ Canis Majoris ...	+ 2.2250	+ 0.0018	- 0.007	+ 2.075	+ 0.322	0.00	Stone
219	Taylor 2524 ...	+ 1.9142	+ 0.0018	...	+ 2.097	+ 0.277	...	...
220	... ..	+ 0.9332	- 0.0006	...	+ 2.173	+ 0.134	...	...
221	Lacaille 2348 ...	+ 0.5674	- 0.0026	...	+ 2.330	+ 0.081	...	...
222	... ..	+ 1.5766	+ 0.0009	...	+ 2.602	+ 0.227	...	...
223	24 Geminorum γ ...	+ 3.4647	- 0.0015	+ 0.003	+ 2.690	+ 0.500	+ 0.04	960
224	ν Argus ...	+ 1.8354	+ 0.0014	- 0.004	+ 2.975	+ 0.264	+ 0.01	Stone
225	Taylor 2629 ...	+ 1.5289	+ 0.0006	...	+ 3.017	+ 0.220	...	...
226	... ..	+ 0.9521	- 0.0020	...	+ 3.100	+ 0.136	...	...
227	Lalande 12863 ..	+ 3.2226	- 0.0007	...	+ 3.102	+ 0.463	...	...
228	27 Geminorum ϵ ...	+ 3.6947	- 0.0035	- 0.002	+ 3.190	+ 0.531	+ 0.01	983
229	31 Geminorum ξ ...	+ 3.3773	- 0.0017	- 0.009	+ 3.362	+ 0.485	+ 0.20	989
230	9 Canis Majoris α ...	+ 2.6810	+ 0.0010	- 0.037	+ 3.474	+ 0.384	+ 1.20	994
231	10 Canis Majoris ...	+ 2.2828	+ 0.0015	...	+ 3.477	+ 0.327	...	...
232	... ..	+ 1.2627	- 0.0011	...	+ 3.736	+ 0.179	...	...
233	51 Cephei (Hev.) ...	+ 30.1568	- 2.2182	- 0.040	+ 3.851	+ 4.313	+ 0.05	Gr.
234	14 Canis Majoris θ ...	+ 2.7971	+ 0.0004	- 0.011	+ 4.227	+ 0.397	+ 0.00	1011
235	Taylor 2767 ...	+ 1.2800	- 0.0015	...	+ 4.363	+ 0.180	...	...
236	21 Canis Majoris ϵ ...	+ 2.3573	+ 0.0013	- 0.001	+ 4.677	+ 0.332	- 0.02	1023
237	43 Geminorum ζ ...	+ 3.5632	- 0.0050	- 0.001	+ 4.940	+ 0.503	- 0.00	1024
238	Lacaille 2606 ...	+ 1.0990	- 0.0037	...	+ 5.021	+ 0.153	...	...
239	23 Canis Majoris γ ...	+ 2.7145	+ 0.0005	- 0.002	+ 5.053	+ 0.381	+ 0.00	1028
240	Lalande 13707 ...	+ 3.6175	- 0.0057	...	+ 5.115	+ 0.509	...	...
241	... ..	+ 1.5959	- 0.0005	...	+ 5.358	+ 0.222	...	...
242	25 Canis Majoris δ ...	+ 2.4394	+ 0.0012	- 0.002	+ 5.490	+ 0.340	- 0.01	1042
243	Radcliffe 1887 ...	+ 12.9912	- 0.4951	...	+ 5.691	+ 1.815	...	...
244	Lacaille 2702 ...	+ 1.1841	- 0.0040	...	+ 5.997	+ 0.162	...	...
245	L ^a Puppis ...	+ 1.8215	+ 0.0003	...	+ 6.022	+ 0.250

Mean Positions of Stars for 1881, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
246	54 Geminorum λ ...	3.6	...	7	11	15.21	73	14	46.7	3	0.17
247	π Argus ...	2.7	...	7	12	56.45	126	53	7.3	5	0.18
248	55 Geminorum δ ...	3.6	...	7	13	0.97	67	47	58.2	2	0.13
249	... ..	9.2	5	7	13	16.47	144	16	37.5	5	0.12
250	Taylor 2975 ...	5.3	...	7	14	4.55	126	31	6.0	4	0.19
251	δ Volantis ...	4.1	...	7	16	53.25	157	44	23.1	4	0.22
252	Taylor 3029 ...	6.9	...	7	18	1.17	146	4	20.6	1	0.15
253	31 Canis Majoris η ...	2.4	...	7	19	23.33	119	4	20.3	5	0.17
254	... ..	9.2	5	7	20	11.94	145	20	18.4	5	0.13
255	Taylor 3051 ...	7.1	4	7	20	28.92	145	20	58.7	5	0.16
256	3 Canis Majoris β ...	3.1	...	7	20	41.85	81	28	18.3	12	0.18
257	U Monocerotis, Var. ...	Var.	...	7	25	6.92	99	31	44.0	10	0.09
258	66 Geminorum α^3 (<i>Castor</i>)	2.1	...	7	27	0.37	57	51	7.2	9	0.19
259	... ..	9.0	5	7	27	57.64	149	51	33.7	5	0.15
260	69 Geminorum ν ...	4.2	...	7	28	35.28	62	50	27.9	4	0.22
261	Taylor 3135 ...	8.1	5	7	30	23.40	144	54	20.8	5	0.14
262	10 Canis Min. α (<i>Procyon</i>)	0.5	...	7	33	4.35	84	23	15.3	2	0.18
263	Taylor 3177 ...	6.0	...	7	34	56.46	138	19	49.7	5	0.18
264	... ..	8.6	5	7	36	3.45	137	16	27.0	5	0.15
265	R Puppis, Var. ...	Var.	...	7	36	15.55	121	23	6.0	10	0.10
266	... ..	7.8	...	7	37	34.03	137	33	10.9	5	0.20
267	73 Geminorum β (<i>Pollux</i>)	1.1	...	7	38	1.97	61	41	17.3	5	0.21
268	... ..	8.1	5	7	38	5.48	145	22	22.5	5	0.14
269	... ..	8.5	2	7	42	6.58	137	17	42.4	5	0.19
270	... ..	7.8	2	7	42	17.19	138	3	57.7	5	0.19
271	S Puppis, Var. ...	8.3	10	7	43	16.40	137	49	12.1	10	0.12
272	T Puppis, Var. ...	7.4	10	7	44	4.50	130	21	19.9	10	0.12
273	7 Argus ξ ...	3.4	...	7	44	17.31	114	33	43.1	4	0.22
274	Melbourne 379 ...	8.2	5	7	46	58.55	150	51	52.8	5	0.23
275	... ..	8.5	4	7	47	14.72	138	14	23.0	5	0.18
276	... ..	8.4	5	7	48	12.71	150	55	12.8	5	0.14
277	R. P. L. 49 ...	6.7	...	7	48	15.07	5	36	12.7	4	0.17
278	... ..	9.5	5	7	54	49.25	134	11	9.0	5	0.13
279	6 Cancri ...	5.0	...	7	56	12.37	61	52	23.7	7	0.15
280	... ..	7.9	5	7	59	2.80	147	47	14.7	5	0.15

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
246	54 Geminorum λ ...	+ 3.4556	- 0.0055	- 0.004	+ 6.135	+ 0.478	+ 0.03	1058
247	π Argûs ...	+ 2.1194	+ 0.0011	- 0.004	+ 6.275	+ 0.201	+ 0.02	Stone
248	55 Geminorum δ ...	+ 3.5905	- 0.0072	- 0.003	+ 6.282	+ 0.405	- 0.00	1062
249	... ..	+ 1.3076	- 0.0032	...	+ 6.304	+ 0.178	...	...
250	Taylor 2975 ...	+ 2.1337	+ 0.0012	...	+ 6.370	+ 0.202	...	...
251	δ Volantis ...	- 0.0118	- 0.0251	- 0.004	+ 6.802	- 0.004	0.00	Stone
252	Taylor 3029 ...	+ 1.1989	- 0.0046	...	+ 6.696	+ 0.162	...	...
253	31 Canis Majoris η ...	+ 2.3733	+ 0.0011	- 0.002	+ 6.809	+ 0.323	- 0.01	1081
254	... ..	+ 1.2560	- 0.0042	...	+ 6.875	+ 0.169	...	...
255	Taylor 3051 ...	+ 1.2560	- 0.0042	...	+ 6.899	+ 0.169	...	...
256	3 Canis Majoris β ...	+ 3.2606	- 0.0041	- 0.004	+ 6.916	+ 0.444	+ 0.03	1079
257	U Monocerotis ...	+ 2.8632	- 0.0008	...	+ 7.277	+ 0.386	...	...
258	66 Geminorum α^3 ...	+ 3.8527	- 0.0133	- 0.015	+ 7.432	+ 0.519	+ 0.08	1087
259	... ..	+ 0.9373	- 0.0092	...	+ 7.509	+ 0.124	...	...
260	69 Geminorum ν ...	+ 3.7076	- 0.0110	- 0.002	+ 7.560	+ 0.409	+ 0.10	1094
261	Taylor 3135 ...	+ 1.3157	- 0.0042	...	+ 7.705	+ 0.174	...	...
262	10 Canis Minoris α ...	+ 3.1912	- 0.0041	- 0.047	+ 7.922	+ 0.425	+ 1.03	1106
263	Taylor 3177 ...	+ 1.6972	- 0.0009	...	+ 8.072	+ 0.224	...	...
264	... ..	+ 1.7502	- 0.0005	...	+ 8.150	+ 0.230	...	...
265	R Puppis ...	+ 2.3277	+ 0.0012	...	+ 8.177	+ 0.306	...	...
266	... ..	+ 1.7412	- 0.0006	...	+ 8.282	+ 0.227	...	...
267	78 Geminorum β ...	+ 3.7276	- 0.0128	- 0.048	+ 8.319	+ 0.401	+ 0.05	1112
268	... ..	+ 1.8110	- 0.0049	...	+ 8.323	+ 0.170	...	...
269	... ..	+ 1.7652	- 0.0005	...	+ 8.641	+ 0.228	...	...
270	... ..	+ 1.7299	- 0.0007	...	+ 8.656	+ 0.224	...	...
271	S Puppis ...	+ 1.7441	- 0.0007	...	+ 8.733	+ 0.225	...	...
272	T Puppis ...	+ 2.0514	+ 0.0009	...	+ 8.797	- 0.265	...	...
273	7 Argûs ξ ...	+ 2.5234	+ 0.0008	- 0.001	+ 8.814	+ 0.327	- 0.02	1132
274	Melbourne 379 ...	+ 0.9304	- 0.0119	...	+ 9.024	- 0.117	...	...
275	... ..	+ 1.7359	- 0.0081	...	+ 9.046	+ 0.161	...	...
276	... ..	+ 0.9816	- 0.0121	...	+ 9.120	+ 0.117	...	...
277	R. P. L. 49 ...	+ 15.2066	- 1.2413	...	+ 9.124	+ 1.970	...	...
278	... ..	+ 1.9325	+ 0.0006	...	+ 9.633	+ 0.243	...	...
279	6 Cancri ...	+ 3.6970	- 0.0148	- 0.003	+ 9.738	+ 0.468	+ 0.04	1149
280	... ..	+ 1.2302	- 0.0075	...	+ 9.955	+ 0.152	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
281	ζ Argūs	2.5	...	7	59	24.16	129	40	8.2	5	0.18
282	10 Cancri μ ^a	5.2	...	8	0	45.67	68	4	26.5	2	0.20
283	15 Argūs	2.9	...	8	2	28.56	113	57	45.1	9	0.21
284	γ Argūs—2nd	3.0	...	8	5	51.90	136	59	10.6	5	0.17
285	... ..	...	...	8	6	15.86	141	29	33.7	5	0.14
286	17 Cancri β	3.8	...	8	10	3.68	80	26	56.3	11	0.17
287	... ..	8.1	5	8	13	42.39	143	6	23.0	5	0.15
288	ε Argūs	2.1	...	8	20	4.34	149	7	38.0	5	0.16
289	33 Cancri γ	5.5	...	8	25	49.47	69	9	20.4	5	0.15
290	... ..	7.5	1	8	27	59.57	139	6	20.8	1	0.13
291	... .. (1st Star) ...	8.0	5	8	34	31.35	136	21	30.5	5	0.16
292	... .. (2nd Star) ...	8.0	5	8	34	42.96	136	21	49.9	5	0.17
293	43 Cancri γ	4.8	...	8	36	23.83	68	6	16.7	7	0.18
294	11 Hydræ ε	3.6	...	8	40	28.39	83	8	44.1	2	0.23
295	δ Argūs	2.2	...	8	41	25.09	144	16	24.3	5	0.17
296	R. P. L. 60	7.0	...	8	50	16.08	5	20	41.5	11	0.60
297	65 Cancri α	4.3	...	8	51	58.61	77	40	58.1	6	0.18
298	76 Cancri κ	5.0	...	9	1	18.05	78	51	14.4	11	0.22
299	77 Cancri ξ	5.2	...	9	2	30.87	67	28	25.8	4	0.22
300	λ Argūs	2.5	...	9	3	37.27	132	57	12.5	5	0.17
301	Lalande 18251 ... ..	...	...	9	9	18.62	74	29	50.2	4	0.21
302	β Argūs	2.0	...	9	11	53.59	159	13	41.3	5	0.18
303	83 Cancri	6.6	...	9	12	20.24	71	47	28.0	6	0.21
304	ι Argus	2.5	...	9	13	54.27	148	46	36.4	7	0.19
305	26 Hydræ	4.9	...	9	14	2.51	101	28	23.1	4	0.19
306	25 Ursæ Majoris θ ...	3.2	...	9	24	53.39	37	46	52.4	9	0.24
307	R. Carinæ, Var. 1. ...	Var.	...	9	29	14.95	152	15	45.8	10	0.23
308	... ..	9.2	5	9	30	45.94	152	56	41.3	5	0.21
309	... ..	9.2	4	9	30	46.54	152	42	9.0	5	0.21
310	14 Leonis ο	3.8	...	9	34	47.90	79	34	1.1	5	0.26
311	17 Leonis ε	3.1	...	9	39	5.67	65	40	41.7	9	0.30
312	ι Carinæ, Var.	Var.	...	9	41	58.61	151	57	34.5	5	0.26
313	ν Argūs	3.5	...	9	44	7.52	154	31	14.7	5	0.21
314	24 Leonis μ	4.1	...	9	45	59.56	63	25	59.3	14	0.27
315	R. P. L. 70	5.0	...	9	49	19.22	5	30	29.9	7	0.36

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
281	ζ Argûs ...	+ 2.1107	+ 0.0013	...	+ 9.982	+ 0.263	...	...
282	10 Cancri μ^a ...	+ 3.5374	- 0.0117	+ 0.001	+ 10.085	+ 0.443	+ 0.06	1161
283	15 Argûs ...	+ 2.5610	+ 0.0009	- 0.008	+ 10.214	+ 0.318	- 0.06	1170
284	γ Argûs -2nd ...	+ 1.8500	+ 0.0001	+ 0.002	+ 10.468	+ 0.226	+ 0.04	Stone
285	.. ..	+ 1.6406	- 0.0019	...	+ 10.408	+ 0.199	...	...
286	17 Cancri β ...	+ 3.2620	- 0.0072	- 0.004	+ 10.780	+ 0.397	+ 0.04	1180
287	... ..	+ 1.5849	- 0.0028	...	+ 11.047	+ 0.188	...	...
288	ϵ Argûs ...	+ 1.2410	- 0.0089	- 0.005	+ 11.508	+ 0.143	- 0.03	Stone
289	33 Cancri η ...	+ 3.4817	- 0.0129	- 0.004	+ 11.916	+ 0.404	+ 0.05	1207
290	.. ..	+ 1.8394	+ 0.0002	...	+ 12.067	+ 0.209	...	...
291	... ..(1st Star) ..	+ 1.9772	+ 0.0017	...	+ 12.522	+ 0.220	...	...
292	... ..(2nd Star)...	+ 1.9778	+ 0.0017	...	+ 12.533	+ 0.220	...	...
293	43 Cancri γ ...	+ 3.4892	- 0.0143	- 0.009	+ 12.647	+ 0.390	+ 0.03	1230
294	11 Hydriæ ϵ ...	+ 3.1952	- 0.0071	- 0.014	+ 12.922	+ 0.351	+ 0.02	1243
295	δ Argûs ...	+ 1.6559	- 0.0018	0.000	+ 12.985	+ 0.178	+ 0.10	Stone
296	R. P. L. 60 ...	+ 13.5974	- 1.7052	...	+ 13.565	+ 1.455	...	...
297	65 Cancri α ...	+ 3.2858	- 0.0098	+ 0.001	+ 13.675	+ 0.345	+ 0.02	1269
298	76 Cancri κ ...	+ 3.2575	- 0.0093	- 0.003	+ 14.261	+ 0.329	- 0.01	1287
299	77 Cancri ξ ...	+ 3.4301	- 0.0159	- 0.001	+ 14.335	+ 0.348	- 0.03	1289
300	λ Argûs ...	+ 2.2062	+ 0.0045	- 0.006	+ 14.403	+ 0.218	0.00	Stone
301	Lalande 18251 ...	+ 3.3237	- 0.0118	...	+ 14.744	+ 0.323	...	...
302	β Argûs ...	+ 0.7126	- 0.0348	- 0.032	+ 14.897	+ 0.064	- 0.09	Stone
303	83 Cancri ...	+ 3.3661	- 0.0134	- 0.009	+ 14.922	+ 0.323	+ 0.14	1309
304	ι Argûs ...	+ 1.6103	- 0.0022	...	+ 15.014	+ 0.150	...	...
305	26 Hydriæ ..	+ 2.8926	- 0.0004	- 0.003	+ 15.022	+ 0.274	- 0.02	1314
306	25 Ursæ Majoris θ ...	+ 4.1524	- 0.0561	- 0.104	+ 15.634	+ 0.374	+ 0.56	1332
307	R Carinae ...	+ 1.6180	- 0.0042	...	+ 15.870	+ 0.129	...	...
308	... ..	+ 1.4858	- 0.0051	...	+ 15.950	+ 0.124	...	...
309	... ..	+ 1.6023	- 0.0047	...	+ 15.950	+ 0.126	...	...
310	14 Leonis σ ...	+ 3.2180	- 0.0093	- 0.010	+ 16.162	+ 0.272	+ 0.02	1360
311	17 Leonis ϵ ...	+ 3.4208	- 0.0180	- 0.004	+ 16.382	+ 0.282	+ 0.01	1368
312	ι Carinae ...	+ 1.6504	- 0.0001	- 0.003	+ 16.526	+ 0.130	- 0.02	Stone
313	ν Argûs ...	+ 1.5047	- 0.0045	0.000	+ 16.632	+ 0.116	+ 0.01	Stone
314	24 Leonis μ ...	+ 3.4413	- 0.0198	- 0.019	+ 16.722	+ 0.271	+ 0.05	1384
315	R. P. L. 70 ...	+ 10.5552	- 1.5382	...	+ 16.882	+ 0.324	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
316	27 Leonis <i>v</i> ...	5.3	...	9	51	49.34	76	59	19.4	3	0.23
317	R Velorum, Var. 1. ...	8.6	10	10	1	40.23	141	36	31.7	10	0.28
318	... ..	9.5	5	10	2	33.80	127	19	1.0	5	0.34
319	... ..	9.0	4	10	2	49.80	127	46	40.6	5	0.34
320	... ..	9.5	4	10	2	59.85	126	28	45.4	4	0.34
321	... ..	9.5	2	10	3	8.40	127	21	19.7	2	0.33
322	33 Leonis ...	8.2	3	10	4	16.64	73	42	32.0	3	0.27
323	R Antliæ, Var. 1. ...	Var.	...	10	4	37.43	127	8	50.2	10	0.24
324	S Carinæ, Var. 2 ...	Var.	...	10	5	34.43	150	57	59.5	10	0.24
325	... ..	9.2	5	10	6	23.06	126	58	37.9	5	0.34
326	... ..	9.5	5	10	7	1.91	127	34	42.6	5	0.33
327	33 Ursæ Majoris λ ...	3.6	...	10	9	54.84	46	29	31.2	4	0.36
328	R. P. L. 72 ...	6.0	...	10	12	7.35	5	8	39.4	3	0.50
329	41 Leonis γ^1 ..	2.5	...	10	13	24.53	69	33	23.7	12	0.29
330	34 Ursæ Majoris μ ...	3.1	...	10	15	13.96	47	54	8.2	5	0.25
331	42 Hydræ μ ...	4.1	...	10	20	20.12	106	13	45.2	15	0.25
332	... ..	9.4	4	10	26	18.26	146	59	19.7	4	0.31
333	47 Leonis ρ ..	4.0	...	10	26	32.72	80	4	51.8	5	0.27
334	<i>p</i> Carinæ ...	3.6	...	10	27	47.81	151	4	26.3	4	0.23
335	θ Argus ...	2.9	...	10	38	42.94	153	46	17.8	5	0.23
336	Taylor 4850—2nd ...	8.0	4	10	39	21.17	148	55	21.5	4	0.30
337	Taylor 4852—1st ...	8.0	2	10	39	30.89	148	57	4.0	2	0.29
338	η Argûs, Var. 1. ...	7.6	4	10	40	26.83	149	3	34.5	4	0.27
339	μ Argûs ...	2.9	...	10	41	39.09	138	47	30.3	5	0.27
340	53 Leonis <i>l</i> ...	5.3	...	10	43	0.05	78	49	30.8	3	0.24
341	Lacaille 4502 ...	7.5	4	10	47	13.41	141	10	6.7	4	0.24
342	T Carinæ, Var. ...	7.7	10	10	50	32.18	149	53	7.2	10	0.27
343	58 Leonis <i>d</i> ...	5.0	...	10	54	24.85	85	44	38.9	13	0.29
344	48 Ursæ Maj. <i>B</i> (<i>Markab</i>). ...	2.6	...	10	54	39.05	32	53	47.3	5	0.32
345	50 Ursæ Maj. <i>a</i> (<i>Dubhe</i>)... ..	2.0	...	10	56	22.34	27	36	24.0	9	0.32
346	63 Leonis χ ...	4.7	...	10	58	52.59	82	1	14.4	4	0.26
347	R. P. L. 79 ...	7.7	...	10	59	49.97	1	42	49.4	1	0.35
348	52 Ursæ Majoris ψ ...	3.1	...	11	2	58.05	44	51	22.0	5	0.24
349	68 Leonis δ ...	2.8	...	11	7	46.69	68	49	27.5	1	0.26
350	12 Crateris δ ...	3.9	...	11	13	23.47	104	8	4.1	4	0.28

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
316	27 Leonis ν ...	+ 3.2370	- 0.0106	- 0.008	+ 16.979	+ 0.245	+ 0.00	1895
317	R Velorum ...	+ 2.2389	+ 0.0083	...	+ 17.439	+ 0.154	...	...
318	... ..	+ 2.5727	+ 0.0099	...	+ 17.479	+ 0.177	...	...
319	... ..	+ 2.5653	+ 0.0100	...	+ 17.491	+ 0.176	...	...
320	... ..	+ 2.5893	+ 0.0097	...	+ 17.497	+ 0.177	...	...
321	... ..	+ 2.5742	+ 0.0100	...	+ 17.503	+ 0.175	...	...
322	33 Leonis ...	+ 3.2622	- 0.0123	+ 0.005	+ 17.536	+ 0.223	+ 0.01	Gr.
323	R Antlia ...	+ 2.5837	+ 0.0100	...	+ 17.565	+ 0.174	...	...
324	S Carinae ...	+ 1.9191	+ 0.0087	...	+ 17.606	+ 0.126	...	...
325	... ..	+ 2.5935	+ 0.0103	...	+ 17.640	+ 0.172	...	...
326	... ..	+ 2.5855	+ 0.0105	...	+ 17.667	+ 0.171	...	...
327	33 Ursae Majoris λ ...	+ 3.6587	- 0.0386	- 0.017	+ 17.784	+ 0.240	+ 0.06	1421
328	R. P. L. 72 ...	+ 9.8073	- 1.5985	- 0.096	+ 17.874	+ 0.641	- 0.04	1399
329	41 Leonis γ^1 ...	+ 3.2958	- 0.0143	+ 0.021	+ 17.923	+ 0.208	+ 0.14	1432
330	34 Ursae Majoris μ ...	+ 3.0055	- 0.0361	- 0.008	+ 17.995	+ 0.225	- 0.03	1434
331	42 Hydrae μ ...	+ 2.9083	+ 0.0040	- 0.010	+ 18.188	+ 0.171	+ 0.06	1451
332	... ..	+ 2.2546	+ 0.0171	...	+ 18.401	+ 0.123	...	...
333	47 Leonis ρ ...	+ 3.1650	- 0.0080	- 0.001	+ 18.410	+ 0.176	- 0.01	1467
334	ν Carinae ...	+ 2.1251	+ 0.0165	...	+ 18.452	+ 0.114	...	...
335	0 Argus ...	+ 2.1299	+ 0.0199	0.000	+ 18.806	+ 0.100	+ 0.02	Stone
336	Taylor 4850—2nd ...	+ 2.3077	+ 0.0211	...	+ 18.824	+ 0.109	...	...
337	Taylor 4852—1st ...	+ 2.3084	+ 0.0213	...	+ 18.832	+ 0.108	...	...
338	η Argus ...	+ 2.3136	+ 0.0217	...	+ 18.857	+ 0.107	...	...
339	μ Argus ...	+ 2.5605	+ 0.0194	...	+ 18.893	+ 0.117	...	...
340	53 Leonis l ...	+ 3.1594	- 0.0080	- 0.002	+ 18.933	+ 0.145	+ 0.02	1500
341	Lucille 4502 ...	+ 2.5538	+ 0.0215	...	+ 19.049	+ 0.109	...	...
342	T Carinae ...	+ 2.3844	+ 0.0256	...	+ 19.140	+ 0.096	...	...
343	58 Leonis d ...	+ 3.1004	- 0.0039	- 0.002	+ 19.238	+ 0.120	+ 0.01	1526
344	48 Ursae Majoris β ...	+ 3.6518	- 0.0629	+ 0.009	+ 19.245	+ 0.142	- 0.05	1523
345	50 Ursae Majoris α ...	+ 3.7730	- 0.0821	- 0.018	+ 19.286	+ 0.144	+ 0.07	1528
346	63 Leonis χ ...	+ 3.1217	- 0.0056	- 0.026	+ 19.345	+ 0.113	+ 0.02	1535
347	R. P. L. 79 ...	+ 14.6697	- 8.2520	...	+ 19.367	+ 0.547	...	...
348	52 Ursae Majoris ψ ...	+ 3.4033	- 0.0368	- 0.007	+ 19.436	+ 0.115	+ 0.04	1542
349	68 Leonis δ ...	+ 3.1893	- 0.0132	+ 0.010	+ 19.536	+ 0.098	+ 0.12	1546
350	12 Crateris δ ...	+ 3.0043	+ 0.0064	- 0.011	+ 19.641	+ 0.081	- 0.21	1557

Mean Positions of Stars for 1881, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
351	Taylor 5172 ...	7.4	6	11	14	51.06	84	27	57.8	6	0.28
352	77 Leonis σ ...	4.1	...	11	15	0.09	83	19	6.2	7	0.25
353	Taylor 5195 ...	5.8	...	11	17	26.95	125	30	44.2	4	0.27
354	14 Crateris ϵ ...	5.0	...	11	18	35.89	100	12	23.7	4	0.29
355	84 Leonis τ ...	5.1	...	11	21	49.02	86	29	18.0	10	0.27
356	Lalande 21819 ...	8.0	4	11	21	49.81	86	30	50.2	4	0.26
357	1 Draconis λ ...	4.1	...	11	24	19.23	20	0	42.1	5	0.31
358	91 Leonis ν ...	4.5	...	11	30	51.29	90	10	0.2	8	0.27
359	Taylor 5372 ...	8.3	6	11	36	2.10	84	35	37.4	6	0.28
360	2 Virginis ξ ...	4.9	...	11	39	8.80	81	4	48.4	4	0.28
361	3 Virginis ν ...	4.2	...	11	39	44.67	82	18	12.2	1	0.25
362	94 Leonis β (<i>Denab</i>) ...	2.2	...	11	42	59.34	74	45	43.5	4	0.31
363	Groombridge 1830 ...	7.2	10	11	46	6.94	51	25	11.4	10	0.28
364	Taylor 5450 ...	8.6	2	11	47	58.26	84	27	32.0	3	0.27
365	8 Virginis π ...	4.4	...	11	54	46.53	82	43	18.5	14	0.33
366	R. P. L. 89 ...	6.3	...	11	58	44.76	3	45	16.0	4	0.85
367	8 Centauri ...	2.8	...	12	2	11.80	140	3	34.3	5	0.27
368	Taylor 5574 ...	7.3	4	12	3	35.08	141	7	16.5	4	0.27
369	2 Corvi ϵ ...	3.1	...	12	4	0.41	111	57	27.5	2	0.30
370	8 Crucis ...	3.4	...	12	8	49.94	148	5	11.2	5	0.27
371	4 Corvi γ ...	2.8	...	12	9	41.16	106	52	51.1	5	0.28
372	15 Virginis η ...	4.0	...	12	18	49.04	90	0	18.8	8	0.31
373	16 Virginis c ...	5.2	...	12	14	18.35	86	1	27.7	9	0.29
374	... ..	9.0	1	12	18	12.32	24	48	42.7	1	0.26
375	7 Corvi δ ...	3.1	...	12	23	42.61	105	51	10.8	18	0.36
376	γ Crucis ...	2.0	...	12	24	34.24	146	26	48.0	5	0.28
377	G. C. Z. XII. 1548 ...	8.9	4	12	25	35.36	151	4	16.5	4	0.31
378	... ..	9.6	5	12	25	49.37	159	16	6.1	5	0.29
379	9 Corvi β ...	2.8	...	12	28	8.12	112	44	18.6	5	0.37
380	5 Draconis κ ...	3.8	...	12	28	23.86	19	33	18.8	5	0.34
381	Lacaille 5219 ...	8.1	5	12	30	53.32	158	56	52.6	5	0.27
382	R. Muscæ, Var. 1.	Var.	...	12	34	49.92	158	45	16.1	10	0.31
383	γ Centauri ...	2.4	...	12	34	57.58	138	18	21.0	5	0.34
384	29 Virginis γ^1 ...	3.5	...	12	35	37.87	90	47	42.5	4	0.38
385	... ..	8.3	5	12	37	42.54	158	22	41.8	5	0.27

359.—Comparison star for Mars in 1871.

374.—Comparison star for Comet 2, 1861.

366.—Groombridge 1850.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
351	Taylor 5172 ...	+ 3.0977	- 0.0035	...	+ 19.666	+ 0.081	...	...
352	77 Leonis σ ...	+ 3.1029	- 0.0042	- 0.007	+ 19.668	+ 0.081	0.000	1558
353	Taylor 5195 ...	+ 2.8962	+ 0.0181	...	+ 19.709	+ 0.072	...	...
354	14 Crateris ϵ ...	+ 3.0291	+ 0.0047	- 0.004	+ 19.727	+ 0.072	- 0.05	1563
355	84 Leonis τ ...	+ 3.0860	- 0.0020	- 0.001	+ 19.776	+ 0.066	+ 0.01	1570
356	Lalande 21819 ...	+ 3.0859	- 0.0021	...	+ 19.776	+ 0.068	...	...
357	1 Draconis λ ...	+ 3.6411	- 0.1117	- 0.009	+ 19.811	+ 0.074	+ 0.03	1572
358	91 Leonis ν ...	+ 3.0718	+ 0.0003	- 0.002	+ 19.892	+ 0.040	- 0.05	1586
359	Taylor 5372 ...	+ 3.0855	- 0.0023	...	+ 19.944	+ 0.039	...	...
360	2 Virginis ξ ...	+ 3.0914	- 0.0040	+ 0.004	+ 19.971	+ 0.033	+ 0.01	1599
361	3 Virginis ν ...	+ 3.0873	- 0.0031	- 0.003	+ 19.973	+ 0.032	+ 0.17	1601
362	94 Leonis β ...	+ 3.0904	- 0.0074	- 0.036	+ 19.999	+ 0.025	+ 0.10	1605
363	Groombridge 1830 ...	+ 3.1371	- 0.0237	+ 0.346	+ 20.017	+ 0.019	+ 5.78	Gr.
364	Taylor 5450 ...	+ 3.0791	- 0.0017	...	+ 20.026	+ 0.015	...	...
365	8 Virginis π ...	+ 3.0761	- 0.0023	- 0.003	+ 20.043	+ 0.002	+ 0.02	1618
366	R. P. L. 89 ...	+ 3.1843	- 0.4567	...	+ 20.054	- 0.006	...	...
367	δ Centauri ...	+ 3.0876	+ 0.0380	0.000	+ 20.053	- 0.013	+ 0.01	Stone
368	Taylor 5574 ...	+ 3.0983	+ 0.0395	...	+ 20.051	- 0.015	...	...
369	2 Corvi ϵ ...	+ 3.0818	+ 0.0142	- 0.006	+ 20.051	- 0.016	- 0.02	1626
370	δ Crucis ...	+ 3.1552	+ 0.0526	0.000	+ 20.039	- 0.026	+ 0.05	Stone
371	4 Corvi γ ...	+ 3.0895	+ 0.0116	- 0.012	+ 20.035	- 0.028	- 0.03	1638
372	15 Virginis η ...	+ 3.0723	+ 0.0027	- 0.006	+ 20.017	- 0.035	+ 0.02	1647
373	16 Virginis c ...	+ 3.0666	+ 0.0006	- 0.021	+ 20.014	- 0.036	+ 0.06	1652
374	... ..	+ 2.8428	- 0.0523	...	+ 19.990	- 0.041	...	...
375	7 Corvi δ ...	+ 3.1115	+ 0.0118	- 0.014	+ 19.947	- 0.055	+ 0.15	1675
376	γ Crucis ...	+ 3.2880	+ 0.0542	0.000	+ 19.940	- 0.060	+ 0.30	Stone
377	G. C. Z. XII. 1548 ...	+ 3.3418	+ 0.0658	...	+ 19.929	- 0.061	...	...
378	... ..	+ 3.4694	+ 0.1014	...	+ 19.927	- 0.065	...	...
379	9 Corvi β ...	+ 3.1409	+ 0.0164	- 0.003	+ 19.903	- 0.064	+ 0.05	1685
380	5 Draconis κ ...	+ 2.6072	- 0.0548	- 0.016	+ 19.900	- 0.055	+ 0.00	1689
381	Lacaille 5219 ...	+ 3.5390	+ 0.1033	...	+ 19.871	- 0.078	...	...
382	R Muscae ...	+ 3.5930	+ 0.1048	...	+ 19.823	- 0.087	...	...
383	γ Centauri ...	+ 3.3001	+ 0.0418	...	+ 19.820	- 0.028	...	...
384	20 Virginis γ^1 ...	+ 3.0752	+ 0.0043	- 0.039	+ 19.812	- 0.078	- 0.02	1698
385	... ..	+ 3.6248	+ 0.1044	...	+ 19.782	- 0.094	...	...

Mean Positions of Stars for 1881, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
386	Lacaille 5255 ...	7.5	4	12	37	43.85	158	10	45.7	5	0.38
387	β Crucis ...	1.7	...	12	40	46.63	149	2	17.8	5	0.34
388	Brisbane 4197 ...	8.8	2	12	41	46.65	141	58	27.7	2	0.32
389	Brisbane 4200 ...	8.9	3	12	42	37.41	141	55	5.9	3	0.32
390	... ..	8.3	5	12	43	39.81	158	59	48.9	5	0.29
391	... ..	8.5	5	12	46	38.01	159	23	28.0	5	0.31
392	R. P. L. 99 ...	5.6	...	12	48	15.80	5	56	23.4	4	0.68
393	... ..	9.1	5	12	48	39.41	99	47	16.7	5	0.32
394	43 Virginis δ ...	3.7	...	12	49	36.61	85	57	19.8	21	0.37
395	O. A. S. 12539 ...	7.7	...	12	50	54.42	118	13	20.4	1	0.36
396	... ..	9.5	3	12	51	53.64	106	7	38.9	3	0.35
397	47 Virginis ϵ ...	3.0	...	12	56	15.16	78	24	2.3	12	0.34
398	δ Centauri, Var. 2. ...	7.8	9	13	3	44.02	142	16	23.4	10	0.35
399	51 Virginis θ ...	4.4	...	13	3	47.41	94	54	12.2	6	0.38
400	ι Centauri ...	3.0	...	13	13	54.62	126	5	2.1	5	0.33
401	O. A. N. 13563 ...	8.0	4	13	16	2.67	27	58	34.4	4	0.35
402	67 Virginis α (<i>Spica</i>) ...	1.2	...	13	18	55.44	100	32	24.1	8	0.41
403	79 Ursæ Majoris ζ —1st ...	2.6	...	13	19	7.87	34	27	7.6	5	0.35
404	79 Ursæ Majoris ζ —2nd...	4.2	...	13	19	8.59	34	27	19.7	5	0.37
405	74 Virginis l^2 ...	4.9	...	13	25	46.67	95	38	25.7	3	0.34
406	79 Virginis ζ ...	3.5	...	13	28	37.81	89	59	13.8	2	0.37
407	80 Virginis ...	5.8	...	13	29	19.86	94	47	22.3	4	0.37
408	Taylor 6294 ...	6.5	4	13	30	12.04	135	49	7.4	4	0.37
409	ϵ Centauri...	2.6	...	13	32	21.28	142	51	38.4	5	0.38
410	4 Bootis τ ...	4.5	...	13	41	36.44	71	56	59.2	13	0.40
411	ν Centauri ...	3.7	...	13	42	22.18	131	5	39.2	5	0.36
412	μ Centauri...	3.4	...	13	42	27.12	131	52	49.3	5	0.39
413	85 Ursæ Majoris η ...	2.0	...	13	42	50.86	40	5	32.7	3	0.39
414	... ..	9.5	4	13	46	23.65	128	28	10.2	4	0.43
415	ζ Centauri...	2.7	...	13	48	7.26	136	42	6.7	5	0.35
416	8 Bootis η ...	2.9	...	13	49	1.26	71	0	21.2	1	0.38
417	β Centauri ...	1.2	...	13	55	26.07	149	47	55.8	6	0.36
418	93 Virginis τ ...	4.4	...	13	55	35.52	87	52	46.8	1	0.40
419	5 Centauri θ ...	2.2	...	13	59	40.94	125	47	4.3	5	0.37
420	94 Virginis ...	6.8	...	13	59	59.74	98	19	23.1	4	0.40

392.—Groombridge 1940.

395.—Comparison star for Danaë in 1869.

401.—Comparison star for Comet 2, 1861.

393.—Comparison star for Sappho in 1881.

396.—Comparison star for Encke's Comet in 1878.

408.—Comparison star for Comet in 1873.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
386	Lacaille 5255 ...	+ 3·6196	+ 0·1032	...	+ 19·781	- 0·094	...	...
387	β Crucis ...	+ 3·4667	+ 0·0654	- 0·009	+ 19·787	- 0·097	+ 0·03	Stone
388	Brisbane 4197 ...	+ 3·3833	+ 0·0490	...	+ 19·722	- 0·095	...	...
389	Brisbane 4200 ...	+ 3·3893	+ 0·0490	...	+ 19·708	- 0·097	...	...
390	... ..	+ 3·7317	+ 0·1128	...	+ 19·691	- 0·110	...	...
391	... ..	+ 3·7910	+ 0·1181	...	+ 19·640	- 0·120	...	...
392	R. P. L. 99 ...	+ 0·3863	- 0·2159	- 0·017	+ 19·611	- 0·020	- 0·02	1730
393	... ..	+ 3·1210	+ 0·0097	...	+ 19·604	- 0·103	...	...
394	43 Virginis δ ...	+ 3·0521	+ 0·0025	- 0·034	+ 19·587	- 0·103	+ 0·05	1723
395	O. A. S. 12539 ...	+ 3·2289	+ 0·0217	...	+ 19·570	- 0·110	...	...
396	... ..	+ 3·1591	+ 0·0137	...	+ 19·542	- 0·111	...	...
397	47 Virginis ϵ ...	+ 3·0057	- 0·0007	- 0·019	+ 19·453	- 0·114	- 0·03	1735
398	S Centauri ...	+ 3·5467	+ 0·0536	...	+ 19·284	- 0·149	...	...
399	51 Virginis θ ...	+ 3·1039	+ 0·0078	- 0·004	+ 19·282	- 0·132	+ 0·04	1747
400	ϵ Centauri ...	+ 3·3910	+ 0·0305	...	+ 19·020	- 0·164	...	...
401	O. A. N. 13563 ...	+ 2·2525	- 0·0189	...	+ 18·960	- 0·114	...	...
402	67 Virginis α ...	+ 3·1563	+ 0·0116	- 0·004	+ 18·876	- 0·163	+ 0·02	1774
403	79 Ursæ Majoris ζ —1st ...	+ 2·4129	- 0·0172	+ 0·013	+ 18·870	- 0·127	+ 0·02	1776
404	79 Ursæ Majoris ζ —2nd ...	+ 2·4127	- 0·0172	+ 0·015	+ 18·870	- 0·127	+ 0·03	1777
405	74 Virginis ι ...	+ 3·1205	+ 0·0091	- 0·008	+ 18·667	- 0·174	+ 0·03	1784
406	79 Virginis ζ ...	+ 3·0722	+ 0·0064	- 0·021	+ 18·572	- 0·176	- 0·06	1789
407	80 Virginis ...	+ 3·1149	+ 0·0088	- 0·001	+ 18·550	- 0·180	- 0·10	1790
408	Taylor 6294 ...	+ 3·5999	+ 0·0443	...	+ 18·521	- 0·208	...	...
409	ϵ Centauri ...	+ 3·7645	+ 0·0588	- 0·018	+ 18·446	- 0·223	+ 0·02	Stone
410	4 Bootis τ ...	+ 2·8855	- 0·0007	- 0·035	+ 18·115	- 0·188	- 0·04	1810
411	ν Centauri ...	+ 3·5759	+ 0·0379	...	+ 18·087	- 0·233	...	...
412	μ Centauri ...	+ 3·5905	+ 0·0390	+ 0·001	+ 18·084	- 0·234	- 0·02	Stone
413	85 Ursæ Majoris η ...	+ 2·3833	- 0·0103	- 0·012	+ 18·068	- 0·159	+ 0·01	1815
414	... ..	+ 3·5479	+ 0·0346	...	+ 17·932	- 0·238	...	...
415	ζ Centauri ...	+ 3·7170	+ 0·0469	- 0·012	+ 17·864	- 0·254	+ 0·05	Stone
416	8 Bootis η ...	+ 2·8616	- 0·0006	- 0·005	+ 17·827	- 0·199	+ 0·34	1821
417	β Centauri ...	+ 4·1800	+ 0·0841	- 0·010	+ 17·563	- 0·301	+ 0·05	Stone
418	93 Virginis τ ...	+ 3·0484	+ 0·0064	- 0·001	+ 17·557	- 0·222	+ 0·03	1829
419	5 Centauri θ ...	+ 3·5529	+ 0·0318	- 0·043	+ 17·381	- 0·265	+ 0·56	Stone
420	94 Virginis ...	+ 3·1702	+ 0·0115	- 0·008	+ 17·368	- 0·237	- 0·01	1833

Mean Positions of Stars for 1881, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
421	95 Virginis ...	5.7	...	14	0	25.12	98	44	41.6	1	0.40
422	Taylor 6585 ...	8.9	4	14	2	22.58	124	18	57.2	4	0.44
423	Lacaille 5844 ...	8.0	4	14	6	18.29	151	8	58.6	4	0.39
424	98 Virginis κ ...	4.3	...	14	6	32.84	99	43	5.7	2	0.37
425	Taylor 6616 ...	5.6	...	14	6	40.22	146	31	39.7	4	0.40
426	16 Bootis α (<i>Arcturus</i>) ...	0.0	...	14	10	13.97	70	11	51.0	3	0.44
427	100 Virginis λ ...	4.6	...	14	12	40.29	102	49	20.6	9	0.42
428	... ..	9.7	4	14	13	36.38	136	54	36.8	4	0.38
429	... ..	8.5	...	14	20	34.75	124	43	1.9	4	0.38
430	22 Bootis <i>f</i>	5.4	...	14	20	55.30	70	14	14.7	19	0.41
431	25 Bootis ρ ...	3.6	...	14	26	42.06	59	6	19.9	7	0.47
432	27 Bootis γ ...	3.1	...	14	27	17.03	51	10	13.9	4	0.43
433	η Centauri... ..	2.5	...	14	27	57.20	131	38	3.9	5	0.38
434	α^1 Centauri ...	1.0	...	14	31	31.08	150	20	33.7	5	0.46
435	α^2 Centauri ...	3.5	...	14	31	31.39	150	20	26.5	1	0.55
436	29 Bootis π —1st ...	5.0	...	14	35	7.90	73	4	14.4	5	0.40
437	30 Bootis ζ ...	3.8	...	14	35	27.93	75	45	38.0	5	0.41
438	5 Libræ ...	6.2	...	14	39	24.14	104	57	24.2	4	0.43
439	36 Bootis ϵ (<i>Mirac</i>) ...	2.6	...	14	39	47.34	62	25	23.7	5	0.45
440	9 Libræ α^2 ...	3.0	...	14	44	17.74	105	32	46.7	6	0.41
441	37 Bootis ξ —2nd ...	4.6	...	14	45	54.04	70	24	16.4	5	0.40
442	β Lupi ...	2.8	...	14	50	44.41	132	39	7.8	5	0.41
443	κ Centauri... ..	3.3	...	14	51	25.30	131	37	32.1	5	0.39
444	... ..	9.5	4	14	51	28.74	130	36	19.9	4	0.46
445	20 Libræ ...	3.2	...	14	57	0.32	114	48	45.3	5	0.40
446	42 Bootis β ...	3.6	...	14	57	27.73	49	8	20.7	5	0.42
447	T Trianguli Aust., Var. ...	Var.	...	14	58	41.00	158	15	39.9	4	0.56
448	43 Bootis ψ ...	4.5	...	14	59	20.32	62	35	14.5	1	0.46
449	21 Libræ ν^1 ...	5.4	...	14	59	59.39	105	47	40.4	3	0.41
450	R. P. L. 111 ...	7.0	...	15	3	47.47	5	35	18.6	3	0.02
451	γ Trianguli Australis ...	3.1	...	15	7	49.58	158	14	19.7	2	0.56
452	R Trianguli Australis ...	Var.	...	15	9	8.51	156	8	28.3	10	0.48
453	27 Libræ β ...	2.7	...	15	10	36.24	98	56	33.4	7	0.48
454	49 Bootis δ —1st ...	3.5	...	15	10	42.23	56	14	25.4	5	0.41
455	13 Ursæ Minoris γ ...	3.2	...	15	20	55.56	17	44	32.1	4	0.41

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		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
421	95 Virginis ...	+ 3.1755	+ 0.0118	- 0.012	+ 17.340	- 0.238	- 0.02	1834
422	Taylor 6585 ...	+ 3.5368	+ 0.0302	...	+ 17.261	- 0.268	...	...
423	Lacaille 5844 ...	+ 4.3431	+ 0.0912	...	+ 17.085	- 0.335	...	...
424	98 Virginis κ ...	+ 3.1925	+ 0.0122	- 0.000	+ 17.074	- 0.250	- 0.14	1842
425	Taylor 6616 ...	+ 4.1338	+ 0.0719	...	+ 17.068	- 0.320	...	...
426	16 Bootis α ...	+ 2.8131	+ 0.0004	- 0.080	+ 16.902	- 0.227	+ 1.98	1847
427	100 Virginis λ ...	+ 3.2388	+ 0.0140	- 0.003	+ 16.787	- 0.264	- 0.03	1850
428	... ..	+ 3.8590	+ 0.0477	...	+ 16.742	- 0.314	...	...
429	... ..	+ 3.6053	+ 0.0306	...	+ 16.398	- 0.308	...	...
430	22 Bootis f ...	+ 2.7953	+ 0.0009	- 0.006	+ 16.380	- 0.242	- 0.03	1864
431	25 Bootis ρ ...	+ 2.5945	- 0.0015	- 0.009	+ 16.084	- 0.233	- 0.13	1869
432	27 Bootis γ ...	+ 2.4274	- 0.0027	- 0.011	+ 16.053	- 0.219	- 0.15	1871
433	η Centauri ...	+ 3.7872	+ 0.0389	- 0.009	+ 16.028	- 0.339	- 0.01	Stone
434	α^1 Centauri ...	+ 4.5145	+ 0.0878	- 0.476	+ 15.825	- 0.410	- 0.81	Stone
435	α^2 Centauri ...							
436	29 Bootis π —1st ...	+ 2.8174	+ 0.0024	- 0.001	+ 15.632	- 0.264	+ 0.01	1875
437	30 Bootis ζ ...	+ 2.8594	+ 0.0033	+ 0.002	+ 15.614	- 0.268	+ 0.01	1876
438	5 Libræ ...	+ 3.2995	+ 0.0152	- 0.003	+ 15.433	- 0.314	- 0.01	1882
439	36 Bootis ϵ ...	+ 2.6240	- 0.0001	- 0.004	+ 15.374	- 0.252	- 0.00	1890
440	9 Libræ α^2 ...	+ 3.3166	+ 0.0154	- 0.009	+ 15.118	- 0.324	+ 0.07	1894
441	37 Bootis ξ —2nd ...	+ 2.7571	+ 0.0021	+ 0.009	+ 15.026	- 0.272	+ 0.10	1898
442	β Lupi ...	+ 3.0073	+ 0.0392	- 0.014	+ 14.741	- 0.392	+ 0.03	Stone
443	κ Centauri ...	+ 3.8803	+ 0.0378	...	+ 14.701	- 0.390	...	...
444	.. ..	+ 3.8522	+ 0.0363	...	+ 14.698	- 0.386	...	...
445	20 Libræ ...	+ 3.5038	+ 0.0207	...	+ 14.358	- 0.362	- 0.06	Stone
446	42 Bootis β ...	+ 2.2636	0.0000	- 0.005	+ 14.332	- 0.237	+ 0.04	1918
447	T Trianguli Australis.	+ 5.4204	+ 0.1423	...	+ 14.261	- 0.561	...	...
448	43 Bootis ψ ...	+ 2.5835	+ 0.0010	- 0.015	+ 14.221	- 0.271	+ 0.01	1922
449	21 Libræ ν^1 ...	+ 3.3398	+ 0.0153	- 0.005	+ 14.181	- 0.349	+ 0.03	1919
450	R. P. L. 111 ...	- 6.7471	+ 1.1573	...	+ 13.943	+ 0.701	...	...
451	γ Trianguli Australis.	+ 5.5199	+ 0.1397	- 0.018	+ 13.687	- 0.593	+ 0.03	Stone
452	R Trianguli Australis.	+ 5.2845	+ 0.1188	...	+ 13.604	- 0.570	...	...
453	27 Libræ β ...	+ 3.2278	+ 0.0117	- 0.008	+ 13.509	- 0.353	+ 0.02	1934
454	49 Bootis δ —1st. ...	+ 2.4116	+ 0.0010	+ 0.007	+ 13.503	- 0.266	+ 0.11	1936
455	13 Ursæ Minoris γ ...	- 0.1393	+ 0.0750	+ 0.004	+ 12.828	+ 0.010	- 0.02	1962

Mean Positions of Stars for 1881, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
456	12 Draconis : ...	3.4	...	15	22	16.94	30	36	59.5	5	0.42
457	γ Lupi ...	3.2	...	15	27	12.82	130	45	54.5	5	0.45
458	38 Libræ γ ...	4.0	...	15	28	52.23	104	23	26.1	6	0.49
459	δ Serpentis—2nd... ..	5.3	...	15	29	6.96	79	3	44.8	5	0.42
460	24 Serpentis α ...	2.7	...	15	38	24.36	83	11	55.9	2	0.39
461	28 Serpentis β ...	3.8	...	15	40	41.74	74	12	^{15.8} 20.1	5	0.41
462	32 Serpentis μ ...	3.5	...	15	43	24.66	93	3	53.7	5	0.46
463	β Trianguli Australis ...	3.1	...	15	44	40.45	153	3	42.4	5	0.55
464	37 Serpentis ε ...	3.7	...	15	44	53.05	85	9	47.0	12	0.51
465	R. P. L. 115 ...	7.0	...	15	45	43.57	4	47	2.5	5	0.31
466	46 Libræ θ ...	4.3	...	15	47	2.87	106	22	43.9	2	0.40
467	41 Serpentis γ ...	4.0	...	15	50	57.38	73	56	57.4	5	0.44
468	6 Scorp̄ii π ...	3.1	...	15	51	39.29	115	46	12.3	5	0.47
469	7 Scorp̄ii δ... ..	2.5	...	15	53	17.81	112	16	53.8	5	0.51
470	Lacaille 6612 ...	9.0	...	15	53	37.99	150	9	49.7	1	0.56
471	8 Scorp̄ii β ¹ ...	3.0	...	15	53	31.10	109	28	41.0	4	0.49
472	13 Draconis θ ...	4.2	...	15	59	39.61	31	6	53.0	5	0.50
473	9 Scorp̄ii ω ¹ ...	4.1	...	15	59	50.63	110	20	44.2	4	0.43
474	R. P. L. 116 ...	7.0	...	16	1	12.62	4	21	33.1	1	0.09
475	δ Trianguli Australis ...	4.3	...	16	4	37.05	153	22	49.3	4	0.51
476	1 Ophiuchi δ ...	2.8	...	16	8	6.55	93	23	10.4	9	0.51
477	γ ¹ Normæ... ..	5.4	...	16	8	6.61	139	46	5.4	2	0.47
478	... ..	10.0	3	16	10	43.64	112	36	9.3	3	0.56
479	γ ³ Normæ... ..	4.6	...	16	10	56.35	139	51	42.1	4	0.47
480	2 Ophiuchi ε ...	3.4	...	16	12	1.54	94	24	6.0	5	0.53
481	19 Ursæ Minoris ...	5.5	...	16	14	13.61	13	49	23.4	2	0.57
482	O. A. S. 15571 ...	7.0	3	16	16	4.00	106	44	13.5	3	0.50
483	20 Hercolis γ ...	3.8	...	16	16	40.19	70	33	57.8	5	0.54
484	ι Trianguli Australis ...	5.8	...	16	16	54.76	153	47	6.1	4	0.47
485	4 Ophiuchi ψ ...	4.6	...	16	17	8.38	109	45	26.5	1	0.61
486	21 Coronæ Borealis ν ³ ...	5.0	..	16	18	0.03	56	1	8.4	1	0.57
487	21 Ursæ Minoris η ...	5.0	...	16	20	59.45	13	58	14.8	1	0.58
488	25 Hercolis ...	5.5	...	16	21	9.68	52	20	4.8	1	0.43
489	Radcliffe 3553 ...	5.7	...	16	21	49.01	34	31	25.9	5	0.53
490	21 Scorp̄ii α (<i>Antares</i>) ...	1.1	...	16	22	6.73	116	9	58.7	3	0.52

458.—Comparison star for Comet in 1867.

474.—Carrington 2423.

465.—Carrington 2380.

478.—Comparison star for R, S, and T Scorp̄ii.

482.—Comparison star for Sylvia in 1879.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
456	12 Draconis <i>z</i> ...	+ 1.3272	+ 0.0133	- 0.002	+ 12.734	- 0.155	- 0.02	1957
457	γ Lupi ...	+ 3.9780	+ 0.0331	- 0.005	+ 12.402	- 0.460	+ 0.02	Stone
458	38 Libræ γ ...	+ 3.3435	+ 0.0136	+ 0.004	+ 12.296	- 0.389	- 0.02	1964
459	δ Serpentis ...	+ 2.8679	+ 0.0052	- 0.006	+ 12.270	- 0.336	- 0.02	1969
460	24 Serpentis <i>a</i> ...	+ 2.9424	+ 0.0062	+ 0.008	+ 11.617	- 0.354	- 0.06	1990
461	28 Serpentis β ...	+ 2.7619	+ 0.0043	+ 0.003	+ 11.453	- 0.336	+ 0.04	1996
462	32 Serpentis μ ...	+ 3.1316	+ 0.0089	- 0.008	+ 11.257	- 0.383	+ 0.01	2001
463	β Trianguli Australis.	+ 5.2577	+ 0.0864	- 0.027	+ 11.165	- 0.640	+ 0.43	Stone
464	37 Serpentis ϵ ...	+ 2.9783	+ 0.0066	+ 0.007	+ 11.150	- 0.365	- 0.06	2005
465	R. P. L. 115 ...	- 10.2370	+ 1.5265	...	+ 11.088	+ 1.239	...	...
466	46 Libræ θ ...	+ 3.4011	+ 0.0136	+ 0.007	+ 10.993	- 0.418	+ 0.13	2011
467	41 Serpentis γ ...	+ 2.7470	+ 0.0043	+ 0.019	+ 10.704	- 0.344	+ 1.29	2023
468	6 Scorpii π ...	+ 3.6191	+ 0.0179	- 0.008	+ 10.653	- 0.452	+ 0.03	2020
469	7 Scorpii δ ...	+ 3.5387	+ 0.0159	- 0.002	+ 10.530	- 0.443	+ 0.03	2024
470	Lacaille 6612 ...	+ 5.0578	+ 0.0694	...	+ 10.505	- 0.632	...	...
471	8 Scorpii β^1 ...	+ 3.4803	+ 0.0142	- 0.003	+ 10.139	- 0.441	+ 0.03	2034
472	13 Draconis θ ...	+ 1.1560	+ 0.0145	- 0.037	+ 10.052	- 0.150	- 0.35	2053
473	9 Scorpii ω^1 ...	+ 3.5012	+ 0.0106	- 0.003	+ 10.038	- 0.440	+ 0.02	2039
474	R. P. L. 116 ...	- 12.1622	+ 1.7453	...	+ 9.935	+ 1.536	...	...
475	δ Trianguli Australis.	+ 5.4087	+ 0.0791	...	+ 9.674	- 0.694	...	...
476	1 Ophiuchi δ ...	+ 3.1422	+ 0.0081	- 0.005	+ 9.407	- 0.408	+ 0.14	2065
477	γ^1 Normæ ...	+ 4.4680	+ 0.0383	...	+ 9.406	- 0.579	...	...
478	... ..	+ 3.5669	+ 0.0147	...	+ 9.203	- 0.465	...	...
479	γ^2 Normæ ...	+ 4.4817	+ 0.0378	- 0.018	+ 9.187	- 0.584	+ 0.06	Stone
480	2 Ophiuchi ϵ ...	+ 3.1641	+ 0.0083	+ 0.004	+ 9.102	- 0.415	- 0.03	2073
481	19 Ursæ Minoris ...	- 1.7926	+ 0.1266	- 0.005	+ 8.930	+ 0.231	- 0.00	2096
482	O. A. S. 15571 ...	+ 3.4337	+ 0.0117	...	+ 8.786	- 0.454	...	...
483	20 Herouli γ ...	+ 2.6478	+ 0.0038	- 0.005	+ 8.739	- 0.351	- 0.05	2084
484	ϵ Trianguli Australis.	+ 5.5175	+ 0.0745	...	+ 8.720	- 0.727	...	...
485	4 Ophiuchi ψ ...	+ 3.5049	+ 0.0128	- 0.003	+ 8.701	- 0.464	+ 0.06	2082
486	21 Coronæ Borealis ν^2	+ 2.2590	+ 0.0032	...	+ 8.634	- 0.301	...	...
487	21 Ursæ Minoris η ...	- 1.8076	+ 0.1185	- 0.019	+ 8.396	+ 0.237	- 0.25	2111
488	25 Herouli ...	+ 2.1348	+ 0.0035	- 0.001	+ 8.383	- 0.287	+ 0.01	2093
489	Radcliffe 3553 ...	+ 1.3045	+ 0.0103	+ 0.004	+ 8.331	- 0.177	+ 0.01	Romberg
490	21 Scorpii α ...	+ 3.6702	+ 0.0150	- 0.002	+ 8.308	- 0.491	+ 0.03	2091

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
491	θ Trianguli Australis ...	6.0	...	16	24	18.07	155	14	27.6	5	0.52
492	9 Ophiuchi ω ...	4.7	...	16	25	5.06	111	12	37.5	4	0.50
493	27 Herculis β ...	2.8	...	16	25	6.17	68	15	0.0	4	0.53
494	23 Scorpis τ ...	2.9	...	16	28	28.52	117	53	3.2	4	0.49
495	13 Ophiuchi ζ ...	2.8	...	16	30	36.39	100	19	29.6	10	0.55
496	Lacaille 6881 ...	5.6	2	16	31	20.31	157	11	51.8	2	0.52
497	40 Herculis ζ ...	3.1	...	16	36	47.99	58	10	50.0	4	0.54
498	44 Herculis η ...	3.7	...	16	38	49.04	50	51	1.9	5	0.49
499	26 Scorpis ε ...	2.2	...	16	42	27.31	124	4	31.3	5	0.50
500	μ ¹ Scorpis ...	3.6	...	16	43	48.53	127	50	28.4	5	0.56
501	52 Herculis ...	5.0	...	16	45	45.41	43	48	30.1	2	0.45
502	ζ ² Scorpis ...	3.6	...	16	46	12.68	132	9	18.2	2	0.55
503	Lacaille 6989 ...	6.2	...	16	46	48.16	159	4	39.7	4	0.50
504	Taylor 7821 ...	7.0	...	16	47	27.30	129	18	34.9	2	0.57
505	53 Herculis ...	5.4	...	16	48	27.12	58	6	2.7	3	0.50
506	ζ Aræ ...	3.2	...	16	48	46.46	145	47	58.9	2	0.55
507	27 Ophiuchi κ ...	3.4	...	16	52	2.06	80	26	18.9	7	0.54
508	58 Herculis ε ...	4.0	...	16	55	44.02	58	53	49.9	5	0.49
509	22 Ursæ Minoris ε ...	4.5	...	16	58	12.53	7	46	7.0	6	0.49
510	35 Ophiuchi η ...	2.6	...	17	3	33.20	105	34	33.1	14	0.56
511	η Scorpis ...	3.6	...	17	3	37.88	133	4	47.2	5	0.49
512	22 Draconis ζ ...	3.3	...	17	8	26.46	24	8	18.6	5	0.50
513	67 Herculis π ...	3.4	...	17	10	53.98	53	3	20.5	5	0.51
514	42 Ophiuchi θ ...	3.4	...	17	14	42.05	114	52	45.7	6	0.62
515	γ Aræ ...	3.6	...	17	15	22.85	146	15	47.4	5	0.61
516	β Aræ ...	2.8	...	17	15	24.59	145	24	49.3	5	0.58
517	κ ¹ Aræ ...	5.8	...	17	16	43.47	140	31	21.0	4	0.50
518	49 Ophiuchi σ ...	4.4	...	17	20	36.59	85	45	16.4	1	0.57
519	... ..	9.0	1	17	22	15.70	130	44	28.5	1	0.49
520	... ..	9.2	1	17	22	26.32	131	55	50.2	1	0.49
521	84 Scorpis υ ...	2.8	...	17	22	40.44	127	11	57.6	2	0.54
522	Lacaille 7303 ...	6.5	...	17	23	0.31	135	56	33.0	5	0.53
523	Taylor 8082 ...	7.5	4	17	23	7.59	135	59	53.3	5	0.64
524	Lacaille 7320 ...	7.5	...	17	24	27.94	135	25	16.7	4	0.66
525	Lacaille 7329 ...	7.0	3	17	25	27.53	134	55	7.9	3	0.55

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
491	θ Trianguli Australis.	+ 5.7221	+ 0.0775	...	+ 8.182	- 0.765	...	...
492	9 Ophiuchi ω ...	+ 3.5474	+ 0.0126	+ 0.000	+ 8.070	- 0.476	- 0.05	2095
493	27 Herculis β ...	+ 2.5840	+ 0.0087	- 0.009	+ 8.088	- 0.348	+ 0.02	2100
494	23 Scorpii τ ...	+ 3.7264	+ 0.0152	- 0.002	+ 7.798	- 0.502	+ 0.02	2103
495	13 Ophiuchi ζ ...	+ 3.2975	+ 0.0087	- 0.001	+ 7.625	- 0.447	- 0.04	2109
496	Lacaille 6881 ...	+ 6.0172	+ 0.0837	...	+ 7.566	- 0.814	...	...
497	40 Herculis ζ ...	+ 2.2969	+ 0.0033	- 0.036	+ 7.121	- 0.316	- 0.41	2127
948	44 Herculis η ...	+ 2.0515	+ 0.0037	+ 0.003	+ 6.956	- 0.284	+ 0.08	2133
499	26 Scorpii ε ...	+ 3.9253	+ 0.0165	- 0.050	+ 6.656	- 0.543	+ 0.27	2132
500	μ ¹ Scorpii ...	+ 4.0540	+ 0.0180	- 0.007	+ 6.544	- 0.562	+ 0.00	Stone
501	52 Herculis ...	+ 1.7511	+ 0.0050	- 0.004	+ 6.383	- 0.245	+ 0.06	2149
502	ζ ² Scorpii ...	+ 4.2204	+ 0.0203	- 0.021	+ 6.346	- 0.587	+ 0.20	Stone
503	Lacaille 6989 ...	+ 6.3024	+ 0.0820	...	+ 6.296	- 0.888	...	...
504	Taylor 7821 ...	+ 4.1126	+ 0.0181	...	+ 6.243	- 0.572	...	...
505	53 Herculis ...	+ 2.2805	+ 0.0033	- 0.009	+ 6.169	- 0.319	+ 0.02	2151
506	ζ Arw... ...	+ 4.9453	+ 0.0343	- 0.013	+ 6.132	- 0.689	+ 0.08	Stone
507	27 Ophiuchi κ ...	+ 2.8570	+ 0.0044	- 0.021	+ 5.860	- 0.402	- 0.02	2156
508	58 Herculis ε ...	+ 2.2972	+ 0.0032	- 0.005	+ 5.550	- 0.324	- 0.03	2161
509	22 Ursæ Minoris ε ...	- 6.3736	+ 0.3096	+ 0.009	+ 5.341	+ 0.894	+ 0.00	2201
510	35 Ophiuchi η ...	+ 3.4337	+ 0.0073	+ 0.000	+ 4.890	- 0.487	- 0.10	2171
511	η Scorpii ...	+ 4.2849	+ 0.0167	- 0.003	+ 4.883	- 0.608	+ 0.26	Stone
512	22 Draconis ζ ...	+ 0.1639	+ 0.0193	+ 0.003	+ 4.474	- 0.025	- 0.02	2193
513	67 Herculis π ...	+ 2.0898	+ 0.0032	- 0.004	+ 4.268	- 0.300	- 0.01	2187
514	42 Ophiuchi θ ...	+ 3.6802	+ 0.0080	- 0.002	+ 3.939	- 0.528	+ 0.04	2189
515	γ Arw ...	+ 5.0363	+ 0.0235	- 0.004	+ 3.880	- 0.722	+ 0.01	Stone
516	β Arw ...	+ 4.9747	+ 0.0225	+ 0.002	+ 3.878	- 0.713	+ 0.03	Stone
517	κ ¹ Arw ...	+ 4.6667	+ 0.0177	...	+ 3.764	- 0.670	...	...
518	49 Ophiuchi σ ...	+ 2.9745	+ 0.0037	- 0.002	+ 3.430	- 0.428	- 0.02	2206
519	... ..	+ 4.2085	+ 0.0111	...	+ 3.287	- 0.605	...	...
520	... ..	+ 4.2570	+ 0.0112	...	+ 3.271	- 0.614	...	...
521	34 Scorpii υ ...	+ 4.0736	+ 0.0097	- 0.004	+ 3.252	- 0.587	+ 0.03	2205
522	Lacaille 7308 ...	+ 4.4360	+ 0.0128	...	+ 3.224	- 0.639	...	...
523	Taylor 8082 ...	+ 4.4388	+ 0.0128	...	+ 3.213	- 0.640	...	...
524	Lacaille 7320 ...	+ 4.4127	+ 0.0122	...	+ 3.097	- 0.636	...	...
525	Lacaille 7329 ...	+ 4.3903	+ 0.0117	...	+ 3.011	- 0.634	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
526	35 Scorpii λ	1.7	...	17	25	31.76	127	0	54.1	1	0.63
527	Lacaille 7346	7.3	...	17	27	58.85	134	47	56.8	4	0.61
528	Taylor 8122	5.6	2	17	28	21.13	128	32	58.1	2	0.50
529	Brisbane 6132	8.1	3	17	28	29.42	135	4	41.9	4	0.58
530	55 Ophiuchi α	2.2	...	17	29	24.55	77	21	7.7	1	0.61
531	Brisbane 6140	8.1	3	17	29	47.57	134	48	2.7	5	0.61
532	Brisbane 6142	8.0	5	17	30	6.06	135	40	52.0	5	0.61
533	55 Serpentis ξ	3.7	...	17	30	46.39	105	19	19.4	2	0.51
534	Brisbane 6151	8.0	2	17	31	55.58	134	36	12.7	2	0.55
535	Brisbane 6160	8.2	4	17	33	11.41	134	43	5.9	4	0.58
536	Taylor 8168	7.5	2	17	34	47.63	135	54	38.4	5	0.65
537	Lacaille 7400	7.5	...	17	35	53.73	135	59	4.0	4	0.66
538	60 Ophiuchi β	2.9	...	17	37	35.67	85	22	53.3	5	0.58
539	γ^1 Scorpii	3.3	...	17	39	15.67	130	4	42.6	5	0.53
540	... ..	8.2	4	17	40	53.32	127	15	3.4	4	0.59
541	86 Herculis μ	3.5	...	17	41	48.01	62	12	31.3	3	0.54
542	π Pavonis	4.6	...	17	57	7.31	153	40	15.5	1	0.51
543	W Sagittarii (γ^1) Var. 6. ...	Var.	...	17	57	25.22	119	35	0.5	5	0.56
544	72 Ophiuchi	3.8	...	18	1	42.43	80	27	6.9	18	0.64
545	13 Sagittarii μ^1	4.1	...	18	6	38.69	111	5	17.4	2	0.57
546	23 Ursæ Minoris δ	4.3	...	18	10	43.18	3	23	27.4	1	0.66
547	19 Sagittarii δ	2.8	...	18	13	22.40	119	52	38.9	5	0.61
548	24 Ursæ Minoris	5.9	...	18	14	51.33	3	0	42.6	1	0.12
549	58 Serpentis η	3.4	...	18	15	9.15	92	55	44.1	12	0.67
550	20 Sagittarii ϵ	2.1	...	18	16	16.38	124	26	21.7	1	0.67
551	22 Sagittarii λ	3.1	...	18	20	37.53	115	29	8.7	14	0.65
552	Lalande 34123	5.7	...	18	22	10.14	83	52	39.6	4	0.69
553	3 Lyræ α (<i>Vega</i>)	0.2	...	18	32	54.52	51	19	34.2	3	0.65
554	10 Lyræ β , Var. 1.	3.6	...	18	45	41.07	56	46	28.5	6	0.64
555	34 Sagittarii σ	2.3	...	18	47	53.06	116	26	36.9	5	0.61
556	R. P. L. 131	6.5	...	18	53	39.29	3	26	39.3	6	0.19
557	13 Aquilæ ϵ	4.1	...	18	54	13.21	75	5	32.5	14	0.69
558	14 Lyræ γ	3.3	...	18	54	29.42	57	28	17.4	5	0.62
559	38 Sagittarii ζ	2.9	...	18	55	2.33	120	2	56.9	5	0.62
560	16 Aquilæ λ	3.6	...	18	59	56.03	95	3	33.7	5	0.62

540.—Comparison star for Comet in 1858.

556.—Carrington 2882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
526	35 Scorpii λ ...	+ 4.0680	+ 0.0090	- 0.001	+ 3.005	- 0.588	+ 0.05	2210
527	Lacaille 7346 ...	+ 4.3809	+ 0.0109	...	+ 2.793	- 0.634	...	...
528	Taylor 8122 ...	+ 4.1274	+ 0.0097	...	+ 2.760	- 0.597	...	...
529	Brisbane 6132 ...	+ 4.4003	+ 0.0113	...	+ 2.746	- 0.650	...	...
530	55 Ophiuchi α ...	+ 2.7750	+ 0.0030	+ 0.007	+ 2.669	- 0.402	+ 0.22	2218
531	Brisbane 6140 ...	+ 4.3884	+ 0.0103	...	+ 2.636	- 0.635	...	...
532	Brisbane 6142 ...	+ 4.4296	+ 0.0106	...	+ 2.609	- 0.641	...	...
533	55 Serpentis ξ ...	+ 3.4357	+ 0.0047	- 0.005	+ 2.550	- 0.498	+ 0.05	2217
534	Brisbane 6151 ...	+ 4.3810	+ 0.0097	...	+ 2.450	- 0.635	...	...
535	Brisbane 6160 ...	+ 4.3871	+ 0.0033	...	+ 2.340	- 0.636	...	...
536	Taylor 8168 ...	+ 4.4441	+ 0.0093	...	+ 2.201	- 0.645	...	...
537	Lacaille 7400 ...	+ 4.4483	+ 0.0090	...	+ 2.105	- 0.646	...	...
538	60 Ophiuchi β ...	+ 2.9649	+ 0.0030	- 0.004	+ 1.957	- 0.431	- 0.17	2229
539	λ Scorpii ...	+ 4.1927	+ 0.0065	...	+ 1.813	- 0.610	...	...
540	... ..	+ 4.0856	+ 0.0060	...	+ 1.671	- 0.594	...	...
541	86 Hercules μ ...	+ 2.3699	+ 0.0025	- 0.024	+ 1.590	- 0.346	+ 0.75	2237
542	π Pavonis ...	+ 5.7737	+ 0.0034	0.000	+ 0.251	- 0.342	+ 0.22	Stone
543	W Sagittarii ...	+ 3.8312	+ 0.0021	- 0.005	+ 0.226	- 0.559	+ 0.21	2266
544	72 Ophiuchi ...	+ 2.8474	+ 0.0019	- 0.006	- 0.149	- 0.415	- 0.09	2275
545	13 Sagittarii μ^1 ...	+ 3.5877	+ 0.0009	- 0.001	- 0.581	- 0.523	- 0.00	2284
546	23 Ursæ Minoris δ ...	- 19.4666	- 0.3113	+ 0.026	- 0.938	+ 2.835	- 0.04	2395
547	19 Sagittarii δ ...	+ 3.8390	- 0.0006	+ 0.001	- 1.169	- 0.559	+ 0.03	2294
548	24 Ursæ Minoris ...	- 22.2823	- 0.5709	+ 0.067	- 1.299	+ 3.248	+ 0.02	2417
549	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.325	- 0.456	+ 0.68	2298
550	20 Sagittarii ϵ ...	+ 3.9867	- 0.0016	- 0.004	- 1.423	- 0.579	+ 0.15	2297
551	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.802	- 0.537	+ 0.20	2310
552	Lalande 34128 ...	+ 2.9298	+ 0.0011	...	- 1.936	- 0.424	...	...
553	3 Lyræ α ...	+ 2.0133	+ 0.0016	+ 0.017	- 2.869	- 0.290	- 0.30	2341
554	10 Lyræ β ...	+ 2.2140	+ 0.0015	- 0.001	- 3.971	- 0.315	- 0.02	2369
555	34 Sagittarii σ ...	+ 3.7227	- 0.0054	- 0.001	- 4.159	- 0.529	+ 0.07	2365
556	R. P. L. 131 ...	- 18.5336	- 1.4956	...	- 4.652	+ 2.629	...	...
557	13 Aquilæ ϵ ...	+ 2.7263	+ 0.0004	- 0.005	- 4.700	- 0.385	+ 0.08	2390
558	14 Lyræ γ ...	+ 2.2488	+ 0.0014	- 0.002	- 4.723	- 0.816	- 0.01	2392
559	38 Sagittarii ζ ...	+ 3.8234	- 0.0075	- 0.004	- 4.770	- 0.540	- 0.01	2384
560	16 Aquilæ λ ...	+ 3.1807	- 0.0021	- 0.004	- 5.185	- 0.447	+ 0.08	2401

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
561	17 Aquilæ ζ	3.1	...	18	59	56.47	76	18	43.0	1	0.70
562	41 Sagittarii π	3.1	...	19	2	41.11	111	12	42.0	8	0.63
563	... ..	3.5	2	19	4	23.93	139	21	8.8	3	0.66
564	25 Aquilæ ω	5.1	...	19	12	13.74	78	37	5.3	3	0.68
565	57 Draconis δ	3.2	...	19	12	31.24	22	32	49.8	5	0.63
566	β ¹ Sagittarii	4.0	...	19	14	4.70	134	40	50.8	5	0.63
567	30 Aquilæ δ	3.5	...	19	19	29.87	87	7	17.8	5	0.65
568	6 Cygni β—1st	4.0	...	19	25	55.03	62	17	21.8	5	0.63
569	52 Sagittarii h ^a	4.6	...	19	29	27.82	115	8	38.7	8	0.70
570	50 Aquilæ γ	2.8	...	19	40	36.06	79	40	32.4	3	0.72
571	Taylor 9125	Var.	...	19	44	18.13	56	51	34.2	5	0.63
572	Lacaille 8249	7.0	...	19	45	9.60	122	16	48.2	3	0.65
573	59 Aquilæ ξ	4.9	...	19	48	28.72	81	50	44.0	4	0.62
574	60 Aquilæ β	4.0	...	19	49	28.05	83	53	17.5	2	0.73
575	65 Aquilæ θ	3.4	...	20	5	9.89	91	10	25.6	17	0.68
576	6 Capricorni α ²	3.8	...	20	11	26.91	102	54	45.3	1	0.71
577	Lacaille 8404	7.0	5	20	12	36.79	124	57	20.9	5	0.74
578	37 Cygni γ	2.3	...	20	17	57.28	50	7	24.6	5	0.63
579	11 Capricorni ρ	5.0	...	20	22	4.27	108	12	22.1	5	0.77
580	... ..	7.0	5	20	24	18.40	139	10	13.3	5	0.75
581	R. P. L. 143	6.7	...	20	27	17.38	5	15	2.6	6	0.62
582	2 Delphini ε	4.1	...	20	27	31.58	79	6	0.1	5	0.75
583	G. C. Z. XX. 925	8.5	2	20	28	16.54	121	2	28.2	4	0.66
584	... ..	8.0	5	20	33	11.78	152	57	34.5	5	0.78
585	15 Capricorni υ	5.3	...	20	33	16.38	108	33	23.8	4	0.72
586	9 Delphini α	4.0	...	20	34	6.55	74	30	25.4	5	0.68
587	β Pavonis	3.3	...	20	34	13.02	156	37	47.3	2	0.80
588	... ..	8.0	...	20	35	59.66	135	11	45.9	5	0.76
589	2 Aquarii ε	3.8	...	20	41	13.94	99	55	50.4	14	0.77
590	53 Cygni ε	2.7	...	20	41	23.63	56	28	26.5	4	0.71
591	Radcliffe 4950	4.5	...	20	42	23.77	32	50	50.6	1	0.66
592	3 Cephei η	3.6	...	20	42	51.79	28	37	22.5	5	0.75
593	... ..	7.5	5	20	47	44.22	135	1	38.8	5	0.74
594	32 Vulpeculæ	5.1	...	20	49	29.25	62	23	37.1	2	0.71
595	Taylor 9685	6.5	5	20	51	53.01	141	43	54.9	5	0.81

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
561	17 Aquilæ ζ ...	+ 2.7578	+ 0.0003	- 0.003	- 5.185	- 0.387	+ 0.09	2405
562	41 Sagittarii π ...	+ 3.5720	- 0.0057	- 0.002	- 5.417	- 0.500	+ 0.03	2406
563	... ..	+ 4.5686	- 0.0208	...	- 5.561	- 0.640	...	...
564	25 Aquilæ ω ...	+ 2.8165	- 0.0003	- 0.001	- 6.216	- 0.388	- 0.03	2432
565	57 Draconis δ ...	+ 0.0122	- 0.0228	+ 0.016	- 6.241	+ 0.001	- 0.08	2449
566	β ¹ Sagittarii ...	+ 4.3259	- 0.0195	- 0.003	- 6.370	- 0.596	+ 0.02	Stone
567	30 Aquilæ δ ...	+ 3.0091	- 0.0018	+ 0.015	- 6.818	- 0.410	- 0.09	2451
568	6 Cygni β ...	+ 2.4194	+ 0.0011	- 0.002	- 7.343	- 0.325	+ 0.01	2473
569	52 Sagittarii h ² ...	+ 3.6526	- 0.0102	+ 0.002	- 7.631	- 0.400	+ 0.01	2478
570	50 Aquilæ γ ...	+ 2.8518	- 0.0011	- 0.001	- 8.522	- 0.373	- 0.01	2511
571	Taylor 9125 ...	+ 2.2883	+ 0.0013	...	- 8.816	- 0.296	...	...
572	Lacaille 8249 ...	+ 3.8296	- 0.0160	...	- 8.882	- 0.498	...	...
573	59 Aquilæ ξ ...	+ 2.9018	- 0.0016	+ 0.006	- 9.141	- 0.373	+ 0.07	2536
574	60 Aquilæ β ...	+ 2.9452	- 0.0020	+ 0.001	- 9.219	- 0.378	+ 0.47	2538
575	65 Aquilæ θ ...	+ 3.0957	- 0.0042	- 0.000	- 10.415	- 0.382	- 0.01	2576
576	6 Capricorni α ² ...	+ 3.3298	- 0.0084	+ 0.002	- 10.882	- 0.403	- 0.02	2595
577	Lacaille 8404 ...	+ 3.8547	- 0.0216	...	- 10.968	- 0.466	...	...
578	37 Cygni γ ...	+ 2.1517	+ 0.0019	- 0.000	- 11.366	- 0.254	- 0.02	2624
579	11 Capricorni ρ ...	+ 3.4302	- 0.0115	- 0.003	- 11.650	- 0.403	+ 0.01	2626
580	... ..	+ 4.3228	- 0.0417	...	- 11.809	- 0.506	...	...
581	R. P. L. 143 ...	- 8.5727	- 1.2814	...	- 12.019	+ 1.005	...	...
582	2 Delphini ε ...	+ 2.8664	- 0.0013	- 0.001	- 12.036	- 0.330	+ 0.02	2642
583	G. C. Z. XX. 925 ...	+ 3.7144	- 0.0200	...	- 12.088	- 0.429	...	...
584	... ..	+ 5.1280	- 0.0901	...	- 12.428	- 0.584	...	...
585	15 Capricorni υ ...	+ 3.4245	- 0.0122	- 0.003	- 12.433	- 0.388	- 0.01	2657
586	9 Delphini α ...	+ 2.7824	- 0.0001	+ 0.003	- 12.492	- 0.313	+ 0.00	2670
587	β Pavonis ...	+ 5.4916	- 0.1163	- 0.009	- 12.498	- 0.623	+ 0.06	Stone
588	... ..	+ 4.1185	- 0.0866	...	- 12.621	- 0.463	...	...
589	2 Aquarii ε ...	+ 3.2508	- 0.0084	- 0.000	- 12.972	- 0.356	+ 0.03	2681
590	53 Cygni ε ...	+ 2.3973	+ 0.0030	+ 0.028	- 12.984	- 0.261	- 0.34	2689
591	Radcliffe 4950 ...	+ 1.5000	- 0.0045	...	- 13.050	- 0.159	...	...
592	3 Cephei η ...	+ 1.2157	- 0.0112	+ 0.013	- 13.082	- 0.128	- 0.81	2698
593	... ..	+ 4.0678	- 0.0378	...	- 13.401	- 0.436	...	...
594	32 Vulpeculæ ...	+ 2.5558	+ 0.0026	- 0.002	- 13.515	- 0.270	+ 0.00	2709
595	Taylor 9685 ...	+ 4.3124	- 0.0517	...	- 13.669	- 0.455	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
596	... ..	8.4	5	20	52	26.38	151	16	14.1	5	0.79
597	Lacaille 8656	6.8	...	20	58	5.42	150	27	59.2	5	0.76
598	Lacaille 8654	6.2	...	20	58	38.35	154	24	19.8	5	0.80
599	23 Capricorni θ	4.3	...	20	59	15.29	107	42	18.7	7	0.73
600	24 Capricorni A	4.6	...	21	0	9.78	115	28	48.5	2	0.72
601	Taylor 9785	6.6	5	21	1	11.22	149	53	16.4	5	0.79
602	61 Cygni—1st	5.5	...	21	1	33.58	51	50	11.9	2	0.82
603	61 Cygni—2nd	6.3	...	21	1	35.01	51	50	22.2	2	0.82
604	Lacaille 8730	7.5	...	21	7	46.69	145	21	1.4	5	0.81
605	64 Cygni ζ	3.5	...	21	7	52.23	60	15	38.4	6	0.75
606	Lacaille 8728	7.5	...	21	8	23.88	151	28	51.0	5	0.75
607	... ..	8.0	5	21	9	18.02	153	32	47.5	5	0.81
608	... ..	10.5	2	21	9	25.19	110	46	59.3	2	0.79
609	γ Pavonis	4.5	...	21	16	34.97	155	54	13.8	5	0.80
610	... ..	8.8	5	21	18	27.06	151	22	29.3	5	0.77
611	... ..	7.3	4	21	18	30.62	134	9	43.2	5	0.75
612	... ..	8.0	5	21	18	49.64	149	52	37.4	5	0.80
613	Taylor 9965	7.5	5	21	24	4.38	150	13	22.8	5	0.74
614	22 Aquarii β	3.1	...	21	25	17.55	96	5	38.2	5	0.79
615	Lacaille 8881	7.3	...	21	26	24.42	153	29	43.7	4	0.80
616	... ..	8.0	4	21	27	9.79	147	41	2.3	4	0.79
617	Taylor 10026	7.3	...	21	31	31.20	147	58	34.0	5	0.76
618	40 Capricorni γ	3.8	...	21	33	29.68	107	12	3.8	4	0.82
619	... ..	8.5	5	21	34	48.03	152	12	18.7	5	0.80
620	... ..	8.0	5	21	34	48.69	148	19	20.5	5	0.78
621	... ..	8.0	5	21	34	54.18	148	26	18.7	5	0.75
622	8 Pegasi ϵ	2.4	...	21	38	20.48	80	40	12.2	4	0.76
623	49 Capricorni δ	3.0	...	21	40	28.21	106	40	6.6	1	0.82
624	Taylor 10107	6.6	...	21	40	34.44	146	40	28.8	5	0.76
625	... ..	8.0	5	21	41	1.56	153	25	32.7	5	0.79
626	Lacaille 8920	7.2	...	21	43	17.56	152	36	25.2	5	0.81
627	... ..	7.0	5	21	44	26.29	147	53	31.3	5	0.76
628	γ Gruis	8.0	...	21	46	42.88	127	55	27.1	1	0.76
629	16 Pegasi	5.0	...	21	47	38.82	64	38	3.5	5	0.78
630	... ..	7.0	5	21	48	14.53	146	15	9.4	5	0.77

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
596	... ..	+ 4.8539	- 0.0858	...	- 13.705	- 0.512	...	...
597	Lacaille 8656	+ 4.7547	- 0.0827	...	- 14.062	- 0.490	...	...
598	Lacaille 8654	+ 5.0374	- 0.1001	...	- 14.096	- 0.521	...	...
599	23 Capricorni θ	+ 3.3751	- 0.0128	+ 0.004	- 14.133	- 0.344	+ 0.05	2733
600	24 Capricorni A	+ 3.5226	- 0.0178	- 0.005	- 14.190	- 0.358	+ 0.02	2737
601	Taylor 9765	+ 4.6938	- 0.0806	...	- 14.255	- 0.477	...	...
602	61 Cygni—1st	+ 2.3345	+ 0.0014	+ 0.344	- 14.274	- 0.233	- 3.23	2744
603	61 Cygni—2nd	+ 2.3347	+ 0.0044	+ 0.350	- 14.276	- 0.233	- 3.03	2745
604	Lacaille 8730	+ 4.3929	- 0.0639	...	- 14.654	- 0.433	...	...
605	64 Cygni ζ	+ 2.5511	+ 0.0038	- 0.002	- 14.659	- 0.248	+ 0.07	2760
606	Lacaille 8728	+ 4.7471	- 0.0895	...	- 14.690	- 0.467	...	...
607	... ..	+ 4.8936	- 0.1019	...	- 14.744	- 0.479	...	...
608	... ..	+ 3.4152	- 0.0149	...	- 14.751	- 0.332	...	...
609	γ Pavonis	+ 5.0277	- 0.1203	+ 0.019	- 15.168	- 0.475	- 0.83	Stone
610	... ..	+ 4.6594	- 0.0900	...	- 15.274	- 0.434	...	...
611	... ..	+ 3.9135	- 0.0392	...	- 15.278	- 0.364	...	...
612	... ..	+ 4.5624	- 0.0825	...	- 15.295	- 0.425	...	...
613	Taylor 9965	+ 4.5422	- 0.0845	...	- 15.500	- 0.411	...	...
614	22 Aquarii β	+ 3.1615	- 0.0071	- 0.001	- 15.656	- 0.282	+ 0.00	2797
615	Lacaille 8831	+ 4.7374	- 0.1032	...	- 15.716	- 0.424	...	...
616	... ..	+ 4.3797	- 0.0738	...	- 15.756	- 0.389	...	...
617	Taylor 10026	+ 4.3623	- 0.0751	...	- 15.990	- 0.378	...	...
618	40 Capricorni γ	+ 3.3193	- 0.0130	+ 0.012	- 16.093	- 0.283	+ 0.01	2815
619	... ..	+ 4.5736	- 0.0946	...	- 16.162	- 0.390	...	...
620	... ..	+ 4.3549	- 0.0766	...	- 16.164	- 0.369	...	...
621	... ..	+ 4.3600	- 0.0771	...	- 16.167	- 0.370	...	...
622	8 Pognsi ϵ	+ 2.9451	- 0.0005	+ 0.001	- 16.343	- 0.242	- 0.01	2835
623	49 Capricorni δ	+ 3.3013	- 0.0128	+ 0.017	- 16.448	- 0.270	0.30	2847
624	Taylor 10107	+ 4.2411	- 0.0708	...	- 16.456	- 0.348	...	...
625	... ..	+ 4.5955	- 0.1028	...	- 16.481	- 0.376	...	...
626	Lacaille 8920	+ 4.5215	- 0.0975	...	- 16.501	- 0.365	...	...
627	... ..	+ 4.2603	- 0.0749	...	- 16.647	- 0.341	...	...
628	γ Gruis	+ 3.6445	- 0.0310	+ 0.002	- 16.757	- 0.286	+ 0.02	Stone
629	16 Pegasi	+ 2.7263	+ 0.0052	- 0.001	- 16.802	- 0.210	+ 0.00	2864
630	... ..	+ 4.1603	- 0.0688	...	- 16.830	- 0.324	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
631	... ..	9.1	5	21	50	36.33	151	46	55.6	5	0.82
632	... ..	7.5	2	21	52	41.44	131	6	31.0	5	0.84
633	... ..	7.5	4	21	52	43.51	147	2	27.2	5	0.75
634	... ..	7.5	5	21	54	14.06	145	19	59.8	5	0.77
635	... ..	8.0	5	21	56	40.82	143	6	47.2	5	0.78
636	... ..	7.5	5	21	59	34.17	154	5	5.3	5	0.80
637	34 Aquarii α ...	3.2	...	21	59	40.21	90	53	49.5	2	0.74
638	... ..	7.5	3	21	59	50.59	133	4	54.7	5	0.84
639	Lacaille 9020 ...	8.0	...	22	0	39.29	140	41	11.3	5	0.76
640	... ..	8.7	5	22	2	34.44	144	35	24.7	5	0.77
641	... .. (2nd Star) ...	7.5	5	22	2	41.49	154	36	1.7	5	0.80
642	... ..	9.0	5	22	7	32.50	147	27	33.6	5	0.81
643	... ..	7.6	5	22	9	24.76	148	22	35.3	5	0.76
644	α Tucanæ ...	2.8	...	22	10	20.07	150	51	6.5	2	0.88
645	Lacaille 9076 ...	5.7	...	22	10	26.96	144	11	59.6	5	0.76
646	43 Aquarii θ ...	4.3	...	22	10	33.15	98	23	32.4	4	0.85
647	Lacaille 9091 ...	7.3	...	22	11	17.95	127	11	19.7	5	0.78
648	... ..	7.7	5	22	11	59.48	127	13	48.2	5	0.79
649	43 Aquarii γ ...	4.1	...	22	15	30.54	91	59	11.0	14	0.83
650	Lacaille 9115 ...	7.3	...	22	17	47.36	141	59	54.0	5	0.76
651	... ..	7.5	5	22	18	21.36	153	8	34.9	5	0.78
652	... .. (1st Star) ...	7.0	5	22	22	5.56	139	6	51.6	5	0.77
653	R. P. L. 150 ...	5.5	...	22	23	33.49	4	29	33.0	10	0.45
654	55 Aquarii ζ^1 ...	4.7	...	22	23	42.09	90	37	42.7	1	0.76
655	R. P. L. 151 ...	6.9	...	22	23	0.53	4	22	40.8	2	0.29
656	Lacaille 9150 ...	8.0	...	22	24	2.50	143	59	35.1	5	0.83
657	Lacaille 9152 ...	7.1	...	22	24	4.49	141	32	51.1	5	0.76
658	... ..	7.7	5	22	25	30.77	150	36	16.7	5	0.83
659	... ..	9.0	5	22	28	59.99	154	25	54.6	5	0.80
660	63 Aquarii η ...	4.2	...	22	29	14.45	90	43	49.5	8	0.83
661	Lacaille 9186 ...	7.8	...	22	30	55.41	137	19	29.1	5	0.76
662	... ..	8.0	5	22	31	41.14	140	37	59.4	5	0.77
663	42 Pegasi ζ ...	3.6	...	22	35	31.49	79	47	21.7	5	0.78
664	β Gruis ...	2.2	...	22	35	33.14	137	30	22.1	5	0.86
665	... ..	8.0	5	22	37	16.74	154	5	7.7	5	0.80

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
631	...	+ 4.4053	- 0.0926	...	- 16.945	- 0.338	...	...
632	...	+ 3.6875	- 0.0353	...	- 17.039	- 0.277	..	..
633	...	+ 4.1595	- 0.0701	...	- 17.041	- 0.314	...	...
634	...	+ 4.0807	- 0.0654	...	- 17.109	- 0.305	...	...
635	...	+ 3.9853	- 0.0588	...	- 17.221	- 0.294	...	...
636	...	+ 4.4525	- 0.1055	...	- 17.348	- 0.320	...	...
637	34 Aquarii α ...	+ 3.0829	- 0.0041	- 0.001	- 17.353	- 0.219	- 0.00	2890
638	...	+ 3.6982	- 0.0381	...	- 17.361	- 0.264	...	...
639	Lacaille 9020	+ 3.8846	- 0.0524	...	- 17.396	- 0.277	...	...
640	...	+ 3.9943	- 0.0628	...	- 17.479	- 0.281	...	...
641	... (2nd Star) ...	+ 4.4514	- 0.1086	...	- 17.484	- 0.313	...	..
642	...	+ 4.0598	- 0.0719	..	- 17.689	- 0.329	...	...
643	...	+ 4.0799	- 0.0752	...	- 17.764	- 0.269	...	...
644	α Tucano ...	+ 4.1769	- 0.0858	- 0.007	- 17.799	- 0.274	+ 0.01	Stone
645	Lacaille 9076	+ 3.9250	- 0.0611	...	- 17.806	- 0.256	...	...
646	43 Aquarii θ ...	+ 3.1627	- 0.0075	+ 0.006	- 17.810	- 0.205	+ 0.02	2929
647	Lacaille 9091	+ 3.5356	- 0.0298	...	- 17.840	- 0.228	...	...
648	...	+ 3.5782	- 0.0302	...	- 17.868	- 0.230	...	...
649	48 Aquarii γ ...	+ 3.0927	- 0.0042	...	- 18.005	- 0.191	...	...
650	Lacaille 9115	+ 3.8104	- 0.0546	...	- 18.093	- 0.233	...	...
651	...	+ 4.2052	- 0.0864	...	- 18.113	- 0.257	...	...
652	... (1st Star)	+ 3.7121	- 0.0479	...	- 18.252	- 0.217	...	...
653	R. P. L. 150 ...	- 3.9458	- 1.2361	+ 0.052	- 18.268	+ 0.245	- 0.04	2993
654	55 Aquarii ζ ...	+ 3.0784	- 0.0033	+ 0.011	- 18.273	- 0.178	- 0.04	2960
655	R. P. L. 151 ...	- 4.0989	- 1.3049	+ 0.025	- 18.285	+ 0.253	- 0.01	2997
656	Lacaille 9150	+ 3.8202	- 0.0591	...	- 18.321	- 0.220	...	...
657	Lacaille 9152	+ 3.7667	- 0.0530	...	- 18.323	- 0.216	...	...
658	...	+ 4.0232	- 0.0821	...	- 18.373	- 0.228	...	...
659	...	+ 4.1529	- 0.1016	...	- 18.493	- 0.227	...	...
660	62 Aquarii η ...	+ 3.0789	- 0.0031	+ 0.006	- 18.502	- 0.166	+ 0.11	2979
661	Lacaille 9186	+ 3.6218	- 0.0437	...	- 18.558	- 0.193	...	...
662	...	+ 3.6848	- 0.0505	...	- 18.584	- 0.195	...	...
663	42 Pegasi ζ ...	+ 2.9855	+ 0.0023	+ 0.004	- 18.707	- 0.149	+ 0.02	2992
664	β Gruis ...	+ 3.5980	- 0.0436	+ 0.012	- 18.708	- 0.181	+ 0.04	Stone
665	...	+ 4.0440	- 0.0970	...	- 18.762	- 0.202	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>o</i>	<i>'</i>	<i>"</i>		
666	... ..	9.5	4	22	38	37.83	148	35	33.9	5	0.87
667	Taylor 10521	5.9	...	22	38	38.75	137	10	17.2	5	0.76
668	Lacaille 9240	6.5	...	22	41	4.51	154	20	48.0	5	0.79
669	... ..	8.0	5	22	42	20.48	143	56	18.6	5	0.81
670	Taylor 10550	5.8	...	22	44	15.39	129	47	13.7	5	0.86
671	73 Aquarii λ	3.8	...	22	46	24.25	98	12	45.5	16	0.83
672	... ..	8.0	5	22	47	0.16	140	10	6.3	5	0.75
673	Lacaille 9298	6.6	...	22	48	33.82	127	1	19.8	5	0.77
674	... ..	8.6	4	22	50	12.07	156	58	17.0	5	0.85
675	... .. (1st Star)...	9.0	1	22	51	5.63	123	50	28.3	1	0.82
676	... .. (2nd Star)...	8.5	4	22	51	10.45	123	49	58.0	4	0.86
677	... ..	9.5	4	22	52	14.32	144	59	22.8	5	0.86
678	... ..	8.0	5	22	52	20.52	154	20	27.3	5	0.81
679	Lacaille 9317	7.5	...	22	52	23.82	135	49	35.8	6	0.74
680	... ..	7.0	5	22	55	43.63	153	1	21.8	5	0.78
681	Stone 12003	7.8	...	22	58	21.40	133	40	1.2	5	0.87
682	... ..	8.8	4	22	58	21.46	155	58	55.7	4	0.83
683	54 Pegasi α (Markab)	2.6	...	22	58	49.94	75	26	5.2	1	0.82
684	Lacaille 9360—2nd	8.0	...	22	58	59.86	133	43	16.2	4	0.84
685	... ..	8.0	5	22	59	0.41	149	20	9.4	5	0.77
686	... ..	8.0	5	23	0	41.91	128	44	56.9	5	0.77
687	... ..	8.0	3	23	0	46.59	154	16	11.3	5	0.87
688	Lacaille 9370	8.0	5	23	0	53.62	144	43	9.6	5	0.77
689	... ..	7.5	5	23	5	9.23	135	22	11.9	5	0.74
690	... ..	8.0	5	23	6	39.74	146	43	37.6	5	0.77
691	... ..	9.0	5	23	7	15.87	142	40	19.3	5	0.81
692	... ..	6.5	5	23	9	37.52	127	46	6.0	5	0.77
693	Lacaille 9423—1st	7.6	...	23	10	50.85	151	38	57.9	1	0.82
694	6 Piscium γ	3.8	...	23	10	59.71	87	22	5.5	5	0.79
695	... ..	8.0	5	23	12	38.84	148	46	27.1	5	0.77
696	Lacaille 9441	7.5	5	23	13	9.77	131	44	2.4	5	0.78
697	Lacaille 9444	6.7	...	23	13	16.59	124	21	30.1	5	0.85
698	... ..	9.5	5	23	15	32.48	150	37	39.4	5	0.81
699	... ..	7.0	1	23	16	12.90	130	40	38.4	1	0.75
700	Taylor 10748	5.7	...	23	18	31.61	147	30	12.3	1	0.80

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
666	...	+ 3.8335	- 0.0714	...	- 18.803	- 0.187	...	...
667	Taylor 10521...	+ 3.5736	- 0.0427	...	- 18.804	- 0.173	...	...
668	Lacaille 9240	+ 4.0121	- 0.0973	...	- 18.876	- 0.191	...	...
669	...	+ 3.6826	- 0.0577	...	- 18.913	- 0.172	...	...
670	Taylor 10550...	+ 3.4336	- 0.0314	...	- 18.968	- 0.155	...	...
671	73 Aquarii λ ...	+ 3.1332	- 0.0063	- 0.002	- 19.028	- 0.137	- 0.04	3019
672	...	+ 3.5743	- 0.0474	...	- 19.045	- 0.156	...	...
673	Lacaille 9298	+ 3.3816	- 0.0278	...	- 19.088	- 0.144	...	...
674	...	+ 4.0155	- 0.1108	...	- 19.131	- 0.169	...	...
675	... (1st Star) .	+ 3.3377	- 0.0242	...	- 19.155	- 0.135	...	...
676	... (2nd Star)...	+ 3.3374	- 0.0242	...	- 19.156	- 0.135	...	...
677	...	+ 3.6284	- 0.0576	...	- 19.184	- 0.147	...	...
678	...	+ 3.8818	- 0.0932	...	- 19.186	- 0.158	...	...
679	Lacaille 9317	+ 3.4724	- 0.0391	...	- 19.187	- 0.140	...	...
680	...	+ 3.7993	- 0.0852	...	- 19.270	- 0.146	...	...
681	Stone 12003 ...	+ 3.4114	- 0.0352	...	- 19.332	- 0.125	...	...
682	...	+ 3.8696	- 0.1003	...	- 19.333	- 0.143	...	...
683	54 Pegasi α ...	+ 2.9807	+ 0.0056	+ 0.003	- 19.343	- 0.107	+ 0.03	3050
684	Lacaille 9360	+ 3.4086	- 0.0352	...	- 19.347	- 0.124	...	...
685	...	+ 3.6653	- 0.0693	...	- 19.348	- 0.134	...	...
686	...	+ 3.3469	- 0.0288	...	- 19.386	- 0.118	...	...
687	...	+ 3.7813	- 0.0895	...	- 19.388	- 0.134	...	...
688	Lacaille 9370	+ 3.5542	- 0.0553	...	- 19.390	- 0.125	...	...
689	...	+ 3.3935	- 0.0338	...	- 19.483	- 0.110	...	...
690	...	+ 3.5422	- 0.0593	...	- 19.514	- 0.112	...	...
691	...	+ 3.4721	- 0.0494	...	- 19.525	- 0.108	...	...
692	...	+ 3.2980	- 0.0295	...	- 19.572	- 0.098	...	...
693	Lacaille 9423	+ 3.5997	- 0.0742	...	- 19.595	- 0.105	...	...
694	6 Piscium γ ...	+ 3.0592	+ 0.0005	+ 0.049	- 19.597	- 0.087	- 0.02	3082
695	...	+ 3.5247	- 0.0634	...	- 19.627	- 0.098	...	...
696	Lacaille 9441	+ 3.3143	- 0.0311	...	- 19.636	- 0.091	...	...
697	Lacaille 9444	+ 3.2574	- 0.0232	...	- 19.639	- 0.089	...	...
698	...	+ 3.5302	- 0.0686	...	- 19.677	- 0.092	...	...
699	...	+ 3.2905	- 0.0296	...	- 19.689	- 0.085	...	...
700	Taylor 10748	+ 3.4501	- 0.0582	...	- 19.726	- 0.085	...	...

Mean Positions of Stars for 1881, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
701	Lacaille 9465 ...	7.5	...	23	19	30.33	153	53	30.0	5	0.78
702	8 Piscium κ ...	5.0	...	23	20	49.86	89	23	44.9	9	0.78
703	... ..	7.3	5	23	24	4.90	152	51	59.1	5	0.81
704	Taylor 10784 ...	6.7	...	23	24	8.38	132	38	33.0	5	0.75
705	... ..	8.0	5	23	24	23.63	155	1	38.6	5	0.79
706	O. A. N. 25745 ...	7.8	5	23	27	47.91	31	20	59.6	5	0.77
707	R. P. L. 158 ...	5.7	...	23	27	49.98	3	20	53.0	4	0.85
708	... ..	8.0	5	23	29	36.74	134	6	26.5	5	0.83
709	... ..	7.4	5	23	32	56.58	156	54	45.8	5	0.80
710	17 Piscium ι ...	4.3	...	23	33	49.76	85	1	7.4	10	0.86
711	... ..	8.0	5	23	34	15.00	151	58	38.0	5	0.79
712	Lacaille 9557 ...	7.5	...	23	35	52.48	151	43	19.3	5	0.78
713	... ..	8.0	4	23	36	5.21	148	8	19.1	5	0.85
714	G. C. Z. XXIII. 977 ...	8.0	1	23	36	7.06	148	37	18.4	1	0.74
715	Stone 12267 ...	7.5	4	23	37	53.68	131	20	46.5	5	0.86
716	... ..	7.6	5	23	39	20.78	142	53	48.2	5	0.81
717	Lacaille 9589 ...	7.3	...	23	40	28.36	140	28	15.0	5	0.77
718	... ..	8.1	4	23	41	58.36	152	40	13.9	5	0.85
719	δ Sculptoris ...	4.6	...	23	42	43.41	118	47	19.3	4	0.78
720	Lacaille 9604 ...	6.9	...	23	43	19.84	153	30	1.5	5	0.78
721	... ..	7.0	5	23	43	35.32	151	47	51.7	5	0.79
722	... ..	9.0	5	23	45	42.40	139	30	37.0	5	0.83
723	Stone 12335 ...	8.0	...	23	47	25.40	140	5	42.4	5	0.89
724	Taylor 10930 ...	6.1	...	23	48	23.99	130	57	48.0	5	0.76
725	η Tucanæ ...	5.2	...	23	51	19.46	154	57	34.6	2	0.77
726	... ..	9.0	4	23	51	28.65	142	51	35.7	4	0.88
727	... ..	7.0	5	23	52	9.31	153	40	4.5	5	0.78
728	28 Piscium ω ...	4.2	...	23	53	11.98	83	47	43.8	5	0.81
729	... .. (2nd Star) ...	7.5	5	23	53	26.24	132	56	49.8	5	0.81
730	... ..	10.5	1	23	54	4.48	101	21	8.2	1	0.80
731	... ..	7.0	5	23	55	30.77	129	59	53.1	5	0.77
732	Lacaille 9709 ...	7.2	...	23	58	33.80	142	14	50.7	5	0.82
733	... ..	8.0	5	23	59	47.53	132	24	50.8	5	0.81

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
701	Lacaille 9465 ...	+ 3.5516	- 0.0795	...	- 19.742	- 0.084	...	...
702	8 Piscium κ ...	+ 3.0699	0.0000	+ 0.004	- 19.762	- 0.069	+ 0.10	3116
703	... ..	+ 3.4795	- 0.0734	...	- 19.808	- 0.071	...	...
704	Taylor 10784 .	+ 3.2642	- 0.0308	...	- 19.809	- 0.066	...	...
705	... ..	+ 3.5165	- 0.0823	...	- 19.812	- 0.071	...	...
706	O. A. N. 25745 ...	+ 2.7649	+ 0.0389	...	- 19.857	- 0.048	...	...
707	R. P. L. 158 ...	- 0.1245	- 0.5452	+ 0.084	- 19.857	+ 0.012	- 0.00	3147
708	... ..	+ 3.2436	- 0.0318	...	- 19.877	- 0.054	...	...
709	... ..	+ 3.4417	- 0.0865	...	- 19.914	- 0.051	...	...
710	17 Piscium ϵ ...	+ 3.0590	+ 0.0030	+ 0.023	- 19.923	- 0.042	+ 0.44	3148
711	... ..	+ 3.3510	- 0.0656	...	- 19.928	- 0.047	...	...
712	Lacaille 9557 ...	+ 3.3334	- 0.0643	...	- 19.943	- 0.043	...	...
713	... ..	+ 3.2963	- 0.0545	...	- 19.946	- 0.042	...	...
714	G. C. Z. XXIII. 977...	+ 3.3004	- 0.0561	...	- 19.944	- 0.043	...	...
715	Stone 12267 ...	+ 3.1855	- 0.0275	...	- 19.961	- 0.036	...	...
716	... ..	+ 3.2314	- 0.0429	...	- 19.973	- 0.034	...	...
717	Lacaille 9589 ...	+ 3.2440	- 0.0494	...	- 19.981	- 0.032	...	...
718	... ..	+ 3.2756	- 0.0647	...	- 19.992	- 0.029	...	...
719	δ Sculptoris ...	+ 3.1276	- 0.0161	+ 0.009	- 19.997	- 0.026	+ 0.10	Stone
720	Lacaille 9604 ...	+ 3.2670	- 0.0607	...	- 20.001	- 0.026	..	...
721	... ..	+ 3.2508	- 0.0613	...	- 20.003	- 0.026	...	...
722	... ..	+ 3.1699	- 0.0302	...	- 20.015	- 0.020	...	...
723	Stone 12335 ...	+ 3.1600	- 0.0367	...	- 20.024	- 0.017	...	...
724	Taylor 10930 ...	+ 3.1309	- 0.0257	...	- 20.028	- 0.015	...	...
725	η Tucane ...	+ 3.1806	- 0.0672	...	- 20.039	- 0.009	...	...
726	... ..	+ 3.1379	- 0.0398	...	- 20.039	- 0.008	...	...
727	... ..	+ 3.1618	- 0.0629	...	- 20.042	- 0.007	...	...
728	28 Piscium ω ...	+ 3.0680	+ 0.0047	+ 0.009	- 20.045	- 0.005	+ 0.11	3191
729	... (2nd Star)...	+ 3.1080	- 0.0270	...	- 20.046	- 0.004	...	...
730	... ..	+ 3.0792	- 0.0045	...	- 20.048	- 0.003	...	...
731	... ..	+ 3.0943	- 0.0239	...	- 20.050	0.000	...	...
732	Lacaille 9709 ...	+ 3.0832	- 0.0372	...	- 20.054	+ 0.006	...	...
733	... ..	+ 3.0733	- 0.0256	...	- 20.055	+ 0.008	...	...

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1882

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
1 <i>21 Andromedæ α, Alpherat.</i>						Dec. 2	...	0 24 40.76	3	4 19 57.5	M
Nov. 8	...	0 2 17.88	...	61 33 40.1	R	4	...	24 40.42	3	19 59.1	M
11	...	2 17.81	...	33 39.5	R	5	...	24 39.39	3	19 58.4	M
13	...	2 17.81	...	33 39.5	R	7	...	24 40.02	3	19 59.3	M
14	...	2 17.81	...	33 39.2	R	8	...	24 39.60	3	20 0.0	M
17	...	2 17.44	...	33 38.4	R	11	...	24 39.78	3	20 0.9	R
18	...	2 17.48	...	33 40.0	R	R. P. L. 4—s.p.					
Dec. 7	...	2 17.27	...	33 37.8	M	Apl. 11	...	0 24 39.67	3	4 20 1.0	R
11	...	2 17.29	...	33 38.8	R	15	...	24 39.95	3	19 57.9	R
2 <i>88 Pegasi γ, Algenib.</i>						17	...	24 39.78	3	19 59.3	R
Nov. 7	...	0 7 9.63	...	75 28 20.2	R	18	...	24 39.48	3	19 58.0	R
9	...	7 9.56	...	28 20.9	R	27	...	24 40.01	3	19 58.7	R
10	...	7 9.58	...	28 21.1	R	28	...	24 40.55	3	19 57.6	R
11	...	7 9.66	...	28 21.2	R	29	...	24 39.72	3	19 57.4	R
3 <i>8 Ceti ι</i>						May 1	...	24 39.11	3	19 59.7	M
Nov. 9	...	0 13 24.88	...	99 28 42.1	R	2	...	24 38.58	3	19 57.6	M
10	...	13 24.90	...	28 41.8	R	4	...	24 38.46	3	19 55.8	M
13	...	13 24.82	...	28 41.8	R	7 <i>Anon.</i>					
14	...	13 24.76	...	28 39.9	R	Nov. 10	9.0	0 27 39.06	...	131 22 36.7	R
Dec. 1	...	13 24.91	...	28 43.3	M	11	9.0	27 39.22	...	22 36.4	R
8	...	18 24.80	...	28 43.7	M	13	9.0	27 39.31	...	22 35.7	R
11	...	13 24.85	...	28 41.3	R	8 <i>Anon.</i>					
4 <i>Anon.</i>						Dec. 11	7.5	0 31 2.63	...	148 51 34.5	R
Nov. 6	8.0	0 19 37.22	...	148 55 14.0	R	12	7.5	31 2.57	...	51 33.6	R
5 <i>Anon.</i>						13	7.5	31 2.63	...	51 32.8	R
Nov. 10	8.0	0 20 38.98	...	149 26 56.2	R	14	7.5	31 2.79	...	51 33.3	M
11	8.0	20 39.17	...	26 56.3	R	9 <i>Taylor 181.</i>					
13	8.0	20 39.04	...	26 55.6	R	Dec. 2	6.0	0 34 14.29	...	135 26 46.1	M
Dec. 12	8.0	20 39.07	...	26 57.9	R	4	6.0	34 14.10	...	26 44.9	M
13	8.0	20 39.04	...	26 57.5	R	5	6.0	34 14.18	...	26 41.9	M
6 <i>R. P. L. 4.</i>						18	6.0	34 14.36	...	26 46.3	M
Nov. 6	...	0 24 38.48	2	4 19 58.4	R	10 <i>Anon.</i>					
7	...	24 40.00	3	19 58.3	R	Nov. 7	8.0	0 34 30.22	..	128 13 43.2	R
8	...	24 39.98	3	19 58.2	R	8	8.0	34 30.26	...	13 43.3	R
14	...	24 40.51	3	19 57.7	R	9	8.0	34 30.28	...	13 44.1	R
						10	8.0	34 30.21	...	13 44.2	R

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.
11 <i>Taylor 194.</i>						18 <i>2 Ursæ Minoris.</i>					
Nov. 11	7.0	0 36 19.76	...	133 46 20.1	R	Dec. 13	...	0 52 49.88	3	4 22 36.2	R
13	6.5	36 19.78	...	46 19.4	R	<i>2 Ursæ Minoris—s.p.</i>					
14	6.5	36 19.70	...	46 21.7	R	Feb. 18	...	0 52 50.06	2	4 22 37.3	R
18	6.5	36 19.90	...	46 20.4	R	Apl. 22	...	52 50.07	3	22 36.9	R
Dec. 1	...	36 19.72	...	46 22.7	M	27	...	52 49.92	3	22 39.8	R
12 <i>24 Cassiopeiæ η—1st.</i>						28	...	52 50.99	3	22 39.6	R
Nov. 8	...	0 41 57.85	...	32 48 36.0	R	19 <i>Anon.</i>					
14	...	41 57.95	...	48 36.9	R	Nov. 1	9.0	0 56 9.97	...	146 47 41.1	R
13 <i>24 Cassiopeiæ η—2nd.</i>						8	9.0	56 10.06	...	47 41.4	R
Nov. 9	8.0	0 41 58.09	...	32 48 44.6	R	9	9.0	56 10.12	...	47 42.6	R
10	8.0	41 58.16	...	48 44.5	R	10	9.0	56 10.19	...	47 42.3	R
14 <i>63 Piscium δ</i>						11	9.0	56 10.40	...	47 41.6	R
Nov. 6	...	0 42 33.47	...	83 3 27.5	R	20 <i>R. P. L. 14.</i>					
Dec. 4	...	42 33.52	...	3 27.9	M	Dec. 4	...	0 56 30.00	3	3 29 1.6	M
5	...	42 33.45	...	3 27.6	M	5	...	56 29.48	3	28 57.3	M
7	...	42 33.69	...	3 26.8	M	7	...	56 29.79	3	28 58.5	M
8	...	42 33.59	...	3 27.6	M	8	...	56 29.38	3	29 1.8	M
11	...	42 33.58	...	3 26.1	R	12	...	56 29.61	3	29 1.6	R
12	...	42 33.63	...	3 25.0	R	14	...	56 31.05	3	29 3.7	M
15 <i>Anon.</i>						29	...	56 30.20	3	29 3.4	M
Nov. 1	8.0	0 49 50.71	...	128 9 34.7	R	<i>R. P. L. 14.—s.p.</i>					
7	8.0	49 50.97	4	9 35.5	R	Apl. 18	...	0 56 29.69	3	3 29 1.6	R
8	8.0	49 50.76	...	9 35.1	R	19	...	56 29.81	3	28 59.9	R
9	8.0	49 50.78	...	9 35.7	R	21	...	56 29.03	3	28 59.8	R
13	8.0	49 50.86	...	9 36.4	R	22	...	56 29.89	2	29 0.7	R
16 <i>R. P. L. 10.</i>						May 1	...	56 29.73	3	29 2.4	M
Dec. 20	...	0 51 13.62	3	1 36 36.1	M	2	...	56 29.62	3	28 59.3	M
22	...	51 14.12	2	86 34.5	M	3	...	56 29.54	3	29 0.0	M
17 <i>Anon.</i>						21 <i>43 Andromedæ β</i>					
Nov. 18	...	0 52 5.56	...	131 53 36.0	R	Dec. 1	...	1 3 7.46	...	55 0 20.5	M
Dec. 2	...	52 5.58	...	53 38.0	M	2	...	3 7.41	...	0 21.2	M
11	...	52 5.66	...	53 36.4	R	13	...	3 7.45	...	0 18.8	R
16	...	52 5.63	...	53 37.4	M	14	...	3 7.49	...	0 20.4	M

Separate Results of Madras Meridian Circle Observations in 1882.

... 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
Dec. 15	...	1	3	7.63	...	55	0	20.7	M	May 10	...	1	18	21.90	3	2	3	12.6	M
16	...		3	7.61	...		0	21.7	M	12	...		18	22.10	3		3	11.7	M
19	...		3	7.51	...		0	21.8	M	15	...		18	22.09	3		8	11.5	M
20	...		3	7.54	...		0	22.1	M										
30	...		3	7.61	...		0	18.3	R										
22 <i>Anon.</i>																			
Nov. 11	8.5	1	4	50.07	...	134	42	16.5	R	27 <i>1 Ursæ Minoris α, Polaris—s.p.</i>									
13	8.5		4	50.19	...		42	16.1	R	May 2	...	1	15	30.56	3	1	19	13.8	M
14	8.5		4	49.94	...		42	17.2	R	9	...		15	27.37	3		19	13.8	M
Dec. 11	8.5		4	50.24	...		42	19.5	R	22	...		15	28.41	3		19	10.2	M
12	8.5		4	50.32	...		42	18.2	R										
23 <i>Anon.</i>																			
Nov. 1	9.0	1	9	1.35	...	145	52	6.8	R	28 <i>45 Ceti θ¹</i>									
14	9.0		9	1.47	...		52	5.6	R	Jan. 3	...	1	18	7.63	...	98	47	35.2	M
Dec. 13	9.0		9	1.54	...		52	5.7	R	Dec. 12	...		18	7.40	...		47	33.9	R
29	...		9	1.48	...		52	7.0	M	22	...		18	7.41	...		47	36.0	M
24 <i>Anon.</i>																			
Nov. 18	8.0	1	10	4.87	...	124	39	18.9	R	29 <i>Anon.</i>									
Dec. 2	8.0		10	4.91	...		39	17.6	M	Jan. 4	...	1	19	33.53	...	123	28	18.2	M
12	8.0		10	5.08	...		39	17.5	R										
25 <i>Anon.</i>																			
Dec. 11	7.0	1	13	5.04	...	180	43	32.3 15.8	R	30 <i>Anon.</i>									
26 <i>R. P. L. 18.</i>																			
Nov. 10	...	1	13	23.49	8	2	3	11.6	R	Nov. 14	9.7	1	20	4.35	...	122	56	37.4	R
Dec. 5	...		13	24.61	3		3	10.6	M	Dec. 2	9.7		20	4.56	...		56	39.4	M
7	...		13	23.98	2		3	11.8	M	31 <i>Anon.</i>									
8	...		13	23.89	2		3	9.2	M	Jan. 6	...	1	21	2.62	...	123	9	53.1	M
14	...		13	23.74	2		3	10.1	M	Dec. 13	9.0		21	2.64	...		9	50.1	R
19	...		13	21.86	2		3	10.6	M	19	...		21	2.79	...		9	53.3	M
20	...		13	22.86	3		3	9.8	M	29	9.0		21	2.55	...		9	51.6	M
27 <i>R. P. L. 13—s.p.</i>																			
May 4	...	1	13	24.45	3	2	3	11.4	M	32 <i>Anon.</i>									
5	...		13	24.02	2		3	12.4	M	Jan. 7	...	1	23	2.34	...	123	37	38.6	M
6	...		13	21.04	3		3	11.3	M	33 <i>Anon.</i>									
8	...		13	21.94	3		3	11.0	M	Jan. 4	...	1	23	45.26	5	131	15	30.1	M
28 <i>Anon.</i>																			
May 4	...	1	13	24.45	3	2	3	11.4	M	5	8.0		23	45.19	...		15	32.9	M
5	...		13	24.02	2		3	12.4	M	Nov. 8	8.0		23	45.20	...		15	30.1	R
6	...		13	21.04	3		3	11.3	M	9	8.0		23	45.22	...		15	30.6	R
8	...		13	21.94	3		3	11.0	M										

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
34 99 <i>Piscium</i> η										Dec. 13	...	1	39	9.79	...	81	26	11.7	R
Jan. 3	...	1	25	10.12	...	75	15	48.0	M	14	...	39	9.78	26	14.4	M	
6	...	25	10.12	...	...	15	46.1	M		18	...	39	9.73	...	...	26	13.8	M	
Dec. 5	...	25	10.06	...	...	15	48.0	M		19	...	39	9.78	...	...	26	14.2	M	
35 <i>Anon.</i>										21	...	39	9.68	...	...	26	12.3	M	
Dec. 2	7.5	1	27	12.10	...	132	6	50.7	M	22	...	39	9.79	...	...	26	11.9	M	
4	...	27	11.99	...	...	6	50.6	M		23	...	39	9.78	...	...	26	12.2	M	
7	7.7	27	12.27	...	...	6	50.9	M		28	...	39	9.78	...	...	26	13.7	M	
14	...	27	12.41	...	...	6	49.8	M		29	...	39	9.90	...	...	26	13.0	M	
16	...	27	12.08	...	...	6	50.4	M		40 <i>Anon.</i>									
36 <i>Anon.</i>										Dec. 2	7.5	1	41	23.64	...	134	49	44.5	M
Dec. 11	7.5	1	31	21.11	...	150	15	37.4	R	4	7.5	44	23.45	...	...	40	45.1	M	
13	8.0	31	21.22	...	...	15	35.8	R		7	7.7	44	23.54	...	...	40	44.0	M	
15	...	31	21.00	...	...	15	38.4	M		11	7.5	44	23.96	...	...	40	43.7	R	
19	...	31	21.17	...	...	15	39.2	M		12	7.5	44	24.03	...	...	40	43.4	R	
29	8.0	31	20.96	...	...	15	38.5	M		41 55 <i>Ceti</i> ζ									
37 <i>a Eridani, Achernar.</i>										Nov. 13	...	1	45	38.05	...	100	55	6.5	R
Nov. 9	...	1	33	19.20	...	147	50	13.5	R	Dec. 1	...	45	38.19	...	...	55	8.1	M	
10	...	33	19.25	...	...	50	14.7	R		19	...	45	38.39	...	...	55	9.2	M	
18	...	33	18.81	...	...	50	14.3	R		23	...	45	38.15	...	...	55	7.4	M	
Dec. 4	...	33	18.80	...	...	50	16.1	M		29	...	45	38.17	...	...	55	9.2	M	
5	...	33	19.13	...	...	50	16.2	M		42 45 <i>Cassiopeiæ</i> ϵ									
38 <i>Anon.</i>										Nov. 18	...	1	45	54.76	...	26	54	43.1	R
Dec. 30	7.0	1	33	25.11	...	138	32	8.9	R	Dec. 5	...	45	54.54	...	...	54	44.2	M	
39 110 <i>Piscium</i> σ										20	...	45	54.76	...	...	54	44.7	M	
Jan. 3	...	1	39	9.66	...	81	26	12.2	M	22	...	45	54.56	4	...	54	42.8	M	
4	...	39	9.82	...	...	26	12.7	M		43 <i>Stone 762.</i>									
5	...	39	9.75	...	...	26	12.3	M		Jan. 7	7.0	1	50	49.20	...	126	49	24.5	M
6	...	39	9.77	...	...	26	12.9	M		9	...	50	49.14	...	...	49	25.5	M	
7	...	39	9.74	...	...	26	13.5	M		44 <i>Anon.</i>									
9	...	39	9.71	...	...	26	14.6	M		Dec. 14	7.5	1	52	12.24	...	128	4	21.1	M
Dec. 7	...	39	9.66	26	12.8	M		22	...	52	12.18	4	...	4	23.5	M	
8	...	39	9.82	26	15.0	M		23	7.7	52	12.10	4	24.0	M	
11	...	39	9.76	26	12.7	R											
12	...	39	9.75	26	12.0	R											

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45 <i>Anon.</i>						53 <i>Anon.</i>					
Dec. 2	7.7	1 54 38.12	...	185 19 1.7	M	Dec. 22	7.7	2 8 2.88	5	181 49 10.8	M
4	7.7	54 38.08	...	19 1.5	M	29	7.7	8 2.80	...	49 11.6	M
5	7.7	54 38.14	...	19 2.8	M	30	7.7	8 2.90	...	49 10.1	R
7	7.7	54 32.92	...	19 2.3	M						
8	7.7	54 82.97	...	19 1.7	M						
46 <i>Anon.</i>						54 <i>W. B. E. II. 104.</i>					
Jan. 4	...	1 55 43.97	...	87 41 33.6	M	Jan. 5	8.5	2 8 59.79	...	86 41 51.0	M
5	9.0	55 44.10	...	41 36.8	M	7	9.0	8 59.97	...	41 51.4	M
6	9.0	55 44.12	...	41 38.7	M						
47 <i>Stone 815.</i>						55 <i>Talyor 750.</i>					
Dec. 11	7.0	1 57 36.25	...	131 5 20.9	R	Jan. 6	6.0	2 9 45.48	...	131 43 4.0	M
12	7.0	57 36.45	...	5 19.7	R						
18	7.0	57 36.41	...	5 19.2	R						
21	...	57 36.45	5	5 22.4	M						
48 <i>Stone 824.</i>						56 <i>W. B. E. II. 126.</i>					
Dec. 19	6.5	1 59 38.26	...	134 4 27.2	M	Jan. 9	8.0	2 10 23.30	5	86 36 49.6	M
23	7.3	59 38.08	...	4 25.7	M						
49 <i>13 Arietis a</i>						57 <i>67 Ceti.</i>					
Dec. 28	...	2 0 31.35	...	67 5 46.8	M	Jan. 13	...	2 11 5.93	...	96 57 58.1	R
30	...	0 31.37	...	5 45.6	R	14	...	11 5.80	...	58 0.3	M
						17	...	11 5.86	...	57 59.8	M
						18	...	11 5.83	...	58 0.7	M
						Dec. 1	...	11 5.98	...	58 1.0	M
						4	...	11 5.73	...	58 1.8	M
						5	...	11 5.78	...	58 0.6	M
						7	...	11 5.83	...	58 0.6	M
						12	...	11 5.77	...	57 59.8	R
						13	...	11 5.83	...	57 59.8	R
						14	...	11 5.83	...	58 0.1	M
						15	...	11 5.76	...	58 0.6	M
						16	...	11 5.92	...	58 1.9	M
50 <i>Stone 837.</i>						58 <i>Stone 914.</i>					
Jan. 3	...	2 1 36.44	...	127 40 54.3	M	Jan. 10	6.5	2 12 19.86	...	126 31 54.3	M
						11	6.5	12 19.73	...	31 54.5	M
						12	...	12 20.03	...	31 53.7	M
51 <i>Anon.</i>						59 <i>W. B. E. II. 177.</i>					
Dec. 2	7.7	2 4 0.66	...	135 3 9.3	M	Jan. 3	...	2 13 21.79	...	87 43 24.9	M
11	7.7	4 0.86	...	3 7.1	R	4	8.0	13 21.80	...	43 24.0	M
12	7.7	4 0.89	...	3 6.4	R	5	8.0	13 21.70	...	43 23.8	M
18	7.7	4 0.85	...	3 5.4	R						
15	...	4 0.69	...	3 8.6	M						
52 <i>Anon.</i>											
Jan. 4	8.0	2 6 40.84	...	132 25 30.8	M						

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60 <i>Anon.</i>						67 <i>Stone 994.</i>					
Dec. 19	7.0	2 14 26.67	...	182 33 49.4	M	Dec. 11	7.0	2 24 28.47	...	126 28 4.4	R
23	...	14 26.61	...	33 47.8	M	12	7.0	24 28.52	...	28 3.5	R
29	7.5	14 26.56	5	33 50.6	M	18	...	24 28.56	4	28 6.6	M
61 <i>70 Ceti.</i>						19	7.0	24 28.63	...	28 6.4	M
Dec. 2	...	2 16 11.64	...	91 25 23.4	M	68 <i>R. P. L. 26.</i>					
5	...	16 11.85	...	25 24.6	M	Dec. 4	...	2 27 14.01	3	8 28 5.6	M
7	...	16 11.72	...	25 24.2	M	5	...	27 13.52	3	28 5.7	M
8	...	16 11.70	...	25 23.9	M	7	...	27 13.27	2	28 8.5	M
11	...	16 11.91	...	25 22.8	R	69 <i>R. P. L. 26—s.p.</i>					
62 <i>Stone 938.</i>						May 26	...	2 27 14.75	3	3 28 7.0	M
Jan. 6	6.5	2 16 39.06	...	147 19 29.8	M	27	...	27 15.49	3	28 6.4	M
63 <i>Anon.</i>						29	...	27 15.45	3	28 5.5	M
Dec. 22	7.5	2 19 49.57	...	134 51 46.1	M	30	...	27 14.87	3	28 7.5	M
29	...	19 49.75	6	51 44.9	M	June 20	...	27 13.46	3	28 9.2	R
30	7.5	19 49.79	...	51 48.6	R	21	...	27 13.27	3	28 6.3	R
64 <i>73 Ceti ξ²</i>						22	...	27 13.29	2	28 8.9	R
Jan. 6	...	2 21 53.12	...	82 4 11.2	M	70 <i>Stone 1038.</i>					
7	...	21 53.19	...	4 11.7	M	Dec. 13	7.0	2 30 25.75	...	182 37 43.3	R
9	...	21 53.23	...	4 13.5	M	14	7.3	30 26.11	...	37 45.5	M
10	...	21 53.16	...	4 11.4	M	15	7.0	30 25.91	...	37 45.7	M
11	...	21 53.09	...	4 11.3	M	16	...	30 26.02	5	37 44.6	M
12	...	21 53.09	...	4 12.5	M	19	7.0	30 26.09	...	37 47.8	M
65 <i>Anon.</i>						71 <i>Anon.</i>					
Jan. 3	...	2 22 23.72	6	85 23 3.9	M	Dec. 2	7.5	2 32 40.68	...	181 15 26.0	M
4	9.0	22 23.58	...	23 6.3	M	5	7.5	32 40.62	...	15 26.7	M
66 <i>Anon.</i>						8	7.5	32 40.61	...	15 27.1	M
Dec. 2	7.5	2 23 15.76	...	185 34 35.6	M	11	7.5	32 40.56	...	15 25.9	R
8	7.7	23 15.68	...	34 34.9	M	12	7.5	32 40.62	...	15 24.8	R
13	7.5	23 15.80	...	34 32.2	R						
14	...	23 15.92	...	34 30.9	M						
16	...	23 15.79	3	34 33.4	M						

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98 <i>1 Tauri o, Var. 5.</i>						105 <i>Anon.</i>					
Dec. 16	...	3 18 27.78	...	81 23 14.3	M	Dec. 22	7.7	3 26 28.22	...	135 8 15.0	M
18	...	18 27.87	...	23 15.6	M	106 <i>Anon.</i>					
20	...	18 27.93	...	23 16.4	M	Jan. 4	7.5	3 27 12.94	...	126 6 23.3	M
21	...	18 28.08	...	23 16.5	M	7	7.5	27 12.78	...	6 24.8	M
22	...	18 27.90	...	23 14.9	M	9	7.5	27 12.78	...	6 23.4	M
23	...	18 27.83	...	23 10.6	M	11	7.5	27 12.64	...	6 24.3	M
99 <i>Anon.</i>						107 <i>18 Eridani ε</i>					
Jan. 4	...	3 19 8.27	...	184 39 11.0	M	Jan. 13	...	3 27 22.21	...	99 51 30.8	R
100 <i>Stone 1414.</i>						20	...	27 22.27	...	51 32.5	M
Dec. 29	6.7	3 19 14.74	...	180 29 42.3	M	23	...	27 22.18	...	51 31.3	M
30	7.0	19 14.95	...	29 41.4	R	24	...	27 22.23	...	51 32.6	M
101 <i>Anon.</i>						25	...	27 22.23	...	51 32.6	M
Jan. 16	8.0	3 20 20.70	...	149 21 15.1	M	26	...	27 22.18	...	51 31.6	M
20	8.0	20 20.88	...	21 11.7	M	27	...	27 22.28	...	51 32.2	M
23	8.0	20 20.72	...	21 15.9	M	28	...	27 22.23	...	51 33.3	M
102 <i>Anon.</i>						Dec. 28	...	27 22.20	...	51 32.6	M
Jan. 17	8.0	3 20 53.16	...	149 24 37.3	M	29	...	27 22.25	...	51 33.7	M
24	8.0	20 53.16	...	24 40.5	M	30	...	27 22.26	...	51 30.8	R
27	...	20 53.26	...	24 40.9	M	108 <i>R. P. L. 34.</i>					
28	...	20 53.04	...	24 36.9	M	Dec. 12	...	3 27 59.95	3	3 43 42.1	R
103 <i>χ¹ Fornacis.</i>						13	...	28 0.56	3	43 42.8	R
Jan. 6	6.5	3 21 22.27	...	126 20 8.0	M	14	...	27 59.65	3	43 41.5	M
10	6.5	21 21.98	4	20 6.2	M	15	...	28 0.17	3	43 41.5	M
25	...	21 22.23	...	20 8.0	M	16	...	27 59.54	2	43 39.2	M
26	...	21 22.23	...	20 5.0	M	18	...	28 0.19	3	43 41.2	M
30	...	21 22.29	...	20 7.6	M	20	...	27 59.92	3	43 41.4	M
104 <i>Stone 1430.</i>						23	...	28 0.15	3	43 39.0	M
Jan. 5	7.0	3 21 25.42	...	126 22 23.6	M	109 <i>Anon.</i>					
18	7.0	21 25.53	...	22 23.5	M	Jan. 6	8.0	3 29 5.54	...	148 29 56.8	M
19	...	21 25.51	...	22 22.0	M	10	8.0	29 5.24	...	29 54.3	M
21	...	21 25.52	...	22 23.1	M	110 <i>Anon.</i>					
						Jan. 3	7.0	3 31 56.62	...	125 10 50.1	M
						5	7.5	31 56.47	...	10 49.6	M
						7	7.0	31 56.75	...	10 51.5	M
						12	...	31 56.46	...	10 50.8	M

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111 <i>Stone 1522.</i>						118 <i>Stone 1608.</i>					
Dec. 22	7.5	3 34 37.57	...	136 37 35.4	M	Jan. 3	6.0	3 43 59.16	...	141 7 2.7	M
29	7.0	34 37.70	...	37 36.4	M	9	6.5	43 59.18	...	7 1.0	M
30	7.0	34 37.78	...	37 34.6	R						
112 <i>Anon.</i>						119 <i>Anon.</i>					
Jan. 4	8.0	3 34 56.61	...	124 22 12.5	M	Dec. 23	8.0	3 44 16.10	...	136 26 58.3	M
19	...	34 56.34	...	22 11.9	M						
23	8.0	34 56.46	...	22 14.0	M	120 <i>Stone 1620.</i>					
26	...	34 56.51	...	22 12.8	M	Jan. 7	7.0	3 45 10.42	...	147 59 32.7	M
113 <i>Stone 1541.</i>						11	7.0	45 10.43	...	59 34.1	M
Jan. 28	...	3 36 51.29	...	146 31 45.9	M	12	7.0	45 10.54	...	59 32.4	M
30	...	36 51.58	...	31 47.5	M	121 <i>Anon.</i>					
31	...	36 51.47	...	31 45.4	M	Jan. 6	8.0	3 45 29.64	...	124 23 8.6	M
114 <i>W. B. N. III. 803.</i>						10	8.0	45 29.87	...	23 10.7	M
Jan. 11	9.0	3 37 31.09	...	69 52 21.1	M	122 <i>Anon.</i>					
16	9.0	37 31.22	...	52 21.4	M	Jan. 17	8.0	3 47 48.37	6	124 42 57.1	M
18	9.0	37 31.12	...	52 20.7	M	19	8.0	47 48.50	...	42 57.0	M
20	9.0	37 31.23	...	52 20.5	M	20	8.0	47 48.35	...	42 57.4	M
24	9.0	37 31.32	...	52 20.5	M	23	8.0	47 48.57	...	43 0.0	M
115 <i>Stone 1550.</i>						24	8.0	47 48.48	...	42 58.5	M
Jan. 6	...	3 37 39.42	...	146 55 58.1	M	123 <i>Anon.</i>					
10	...	37 39.22	...	55 59.0	M	Jan. 7	7.5	3 52 19.97	...	148 4 7.5	M
27	...	37 39.31	...	55 57.4	M	10	...	52 19.77	...	4 6.4	M
116 <i>Stone 1553.</i>						11	7.5	52 19.77	...	4 6.4	M
Jan. 5	...	3 38 5.47	...	146 27 42.5	M	16	7.5	52 19.88	...	4 6.3	M
7	...	38 5.46	...	27 42.9	M	124 <i>34 Eridani γ^1</i>					
12	...	38 5.10	...	27 40.9	M	Jan. 21	...	3 52 31.36	...	108 50 46.2	M
17	...	38 5.36	...	27 38.5	M	23	...	52 31.35	...	50 48.3	M
25	...	38 5.48	...	27 39.8	M	24	...	52 31.44	...	50 45.5	M
117 <i>25 Tauri η, Alcyone.</i>						25	...	52 31.46	...	50 45.1	M
Jan. 4	...	3 40 28.18	...	66 15 41.0	M	26	...	52 31.43	...	50 44.5	M
Dec. 29	...	40 28.14	...	15 41.3	M	27	...	52 31.33	...	50 44.7	M
30	...	40 28.24	...	15 39.5	R	28	...	52 31.42	...	50 44.4	M

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Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
125 <i>Anon.</i>										May 6	...	3	59	56.99	3	4	45	30.1	M
Jan. 3	8.0	3	53	25.68	...	124	51	1.6	M	8	...	59	56.45	3		45	30.0	M	
5	8.0		53	25.84	...		51	1.1	M	9	...	59	57.18	3		45	29.5	M	
6	8.0		53	25.92	...		51	1.6	M	23	...	59	56.60	3		45	27.3	M	
										25	...	59	57.29	3		45	30.1	M	
126 <i>Stone 1710.</i>										131 <i>Anon.</i>									
Jan. 5	7.0	3	57	81.69	...	124	48	41.1	M	Jan. 4	7.0	4	0	38.35	...	131	36	16.6	M
11	7.0		57	81.39	...		48	40.4	M	7	7.0		0	38.43	...		36	18.1	M
12	6.5		57	81.50	...		48	39.9	M										
127 <i>37 Tauri A¹.</i>										132 <i>Lacaille 1356. (Stone 1743.)</i>									
Jan. 30	...	3	57	48.12	...	68	14	39.7	M	Jan. 16	...	4	0	39.78	...	143	15	4.5	M
31	...		57	48.27	...		14	30.9	M	17	...		0	39.98	...		15	7.0	M
Feb. 1	...		57	48.18	...		14	30.3	R	18	...		0	39.95	4		15	7.9	M
3	...		57	48.15	...		14	30.7	R	19	...		0	39.67	...		15	5.5	M
										20	...		0	39.75	...		15	6.8	M
128 <i>Anon.</i>										133 <i>Lacaille 1366. (Stone 1757.)</i>									
Jan. 23	8.0	3	59	14.88	...	143	56	47.7	M	Jan. 5	6.5	4	3	20.04	...	127	22	36.4	M
24	8.0		59	15.11	...		56	50.4	M	11	6.5		3	19.73	...		22	34.2	M
25	...		59	15.20	5		56	47.4	M	13	6.7		3	20.00	...		22	35.1	R
27	...		59	15.01	...		56	48.9	M	14	...		3	19.97	...		22	34.0	M
28	...		59	15.20	...		56	47.3	M										
129 <i>Anon.</i>										134 <i>Anon.</i>									
Jan. 3	8.0	3	59	17.64	...	128	55	42.9	M	Jan. 6	8.0	4	5	9.41	...	126	57	50.9	M
6	8.0		59	17.70	...		55	42.1	M	10	8.0		5	9.28	...		57	52.1	M
10	8.0		59	17.65	...		55	43.0	M	12	8.0		5	9.15	...		57	51.8	M
130 <i>R. P. L. 35.</i>										135 <i>38 Eridani o¹</i>									
Dec. 18	...	3	59	57.18	3	4	45	24.8	M	Jan. 30	...	4	6	6.87	...	97	8	46.2	M
20	...		59	55.78	3		45	28.8	M	31	...		6	6.29	...		8	47.7	M
22	...		59	56.35	3		45	25.5	M										
29	...		59	56.99	3		45	24.6	M										
<i>R. P. L. 35—s.p.</i>										136 <i>Anon.</i>									
May 2	...	3	59	56.86	3	4	45	32.5	M	Jan. 4	8.0	4	7	29.98	...	150	36	40.2	M
3	...		59	56.96	3		45	32.0	M	7	8.0		7	30.13	...		36	41.4	M
4	...		59	57.04	3		45	30.1	M	17	8.0		7	29.80	...		36	40.0	M
5	...		59	56.18	3		45	28.9	M	24	8.0		7	30.03	...		36	43.3	M

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Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.
137 <i>W. B. N. IV. 145.</i>						143 <i>Anon.</i>					
Jan. 3	8.5	4 9 48.25	6	66 57 18.8	M	Jan. 7	7.0	4 17 5.10	...	149 1 50.0	M
12	...	9 48.40	...	57 19.9	M	9	7.0	17 5.25	...	1 48.4	M
14	...	9 48.56	...	57 19.3	M	11	7.0	17 4.81	...	1 49.5	M
20	...	9 48.33	...	57 19.1	M	13	7.0	17 4.78	...	1 47.1	R
25	...	9 48.49	...	57 19.8	M	16	7.0	17 5.05	...	1 47.9	M
138 <i>Anon.</i>						144 <i>Taylor 1553.</i>					
Jan. 10	7.0	4 10 8.35	6	128 33 36.3	M	Dec. 23	7.5	4 20 47.59	5	134 17 31.4	M
13	7.0	10 8.23	...	33 35.3	R	145 <i>74 Tauri ε</i>					
19	...	10 8.17	...	33 35.9	M	Jan. 5	...	4 21 43.50	...	71 4 57.6	M
21	...	10 8.21	...	33 36.0	M	12	...	21 43.41	...	4 54.4	M
139 <i>Anon.</i>						Feb. 2	...	21 43.51	...	4 46.5	R
Jan. 5	8.5	4 10 11.23	...	128 36 55.3	M	3	...	21 43.54	...	4 56.4	R
11	9.0	10 10.98	...	36 53.8	M	4	...	21 43.58	...	4 57.8	R
26	...	10 11.33	...	36 53.3	M	6	...	21 43.52	...	4 56.7	R
140 <i>54 Tauri γ</i>						7	...	21 43.65	...	4 56.2	R
Jan. 27	...	4 13 4.63	...	74 39 30.6	M	146 <i>Stone 1895.</i>					
28	...	13 4.73	...	39 31.8	M	Jan. 3	8.0	4 22 15.01	...	128 51 12.9	M
30	...	13 4.66	...	39 32.0	M	4	7.5	22 15.11	...	51 13.5	M
31	...	13 4.78	...	39 32.4	M	147 <i>Taylor 1582.</i>					
Feb. 1	...	13 4.73	...	39 30.1	R	Jan. 23	6.5	4 23 27.19	...	151 30 24.5	M
2	...	13 4.76	...	39 30.4	R	148 <i>Stone 1914.</i>					
4	...	13 4.81	...	39 29.8	R	Jan. 24	8.0	4 24 37.00	...	143 39 59.2	M
6	...	13 4.77	...	39 30.8	R	28	...	24 37.04	...	39 58.4	M
Dec. 29	...	13 4.65	...	39 33.7	M	30	...	24 36.99	...	39 59.8	M
141 <i>ψ Horologii.—2nd.</i>						31	...	24 36.85	...	39 58.8	M
Jan. 18	8.0	4 15 38.59	...	134 33 34.9	M	Feb. 1	7.0	24 36.86	...	39 58.6	R
19	9.0	15 38.42	...	33 35.0	M	149 <i>Anon.</i>					
20	9.0	15 38.41	...	33 35.9	M	Jan. 6	8.0	4 25 8.26	...	125 32 50.0	M
21	...	15 38.65	...	33 35.7	M	7	8.0	25 8.30	...	32 49.7	M
23	8.0	15 38.45	...	33 37.8	M	9	8.0	25 8.14	...	32 52.0	M
142 <i>Anon.</i>						10	8.0	25 8.25	...	32 46.4	M
Jan. 4	8.0	4 16 12.57	...	125 22 6.3	M						

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h. m. s.				° ' "		h. m. s.				° ' "	
150 <i>Taylor 1595.</i>						158 <i>Anon.</i>					
Dec. 30	7.5	4 26 58.88	...	131 25 41.1	R	Jan. 27	...	4 37 23.02	4	75 40 4.7	M
151 <i>Anon.</i>						Feb. 3	9.5	37 22.80	...	40 1.8	R
Jan. 4	8.5	4 28 10.73	...	126 35 33.5	M	7	9.5	37 22.83	...	39 59.8	R
17	8.5	28 10.97	...	35 34.1	M	8	9.5	37 22.92	...	40 0.3	R
18	8.5	28 10.77	...	35 31.5	M	10	9.5	37 23.00	...	39 59.1	R
19	...	28 10.60	...	35 32.1	M	159 <i>W. B. E. IV. 794.</i>					
152 <i>Stone 1961.</i>						Feb. 1	8.0	4 38 3.34	...	75 35 36.8	R
Jan. 3	7.5	4 28 54.29	...	128 32 2.4	M	4	8.0	38 3.36	...	35 38.4	R
5	7.5	28 54.36	...	32 0.9	M	6	8.0	38 3.44	...	35 38.4	R
11	7.0	28 54.53	...	32 1.3	M	9	8.0	38 3.53	...	35 36.0	R
13	7.5	28 54.23	...	31 59.7	R	11	8.0	38 3.55	...	35 36.2	R
153 <i>Stone 1991.</i>						160 <i>57 Eridani μ</i>					
Dec. 23	6.5	4 32 29.12	...	135 22 38.1	M	Jan. 9	...	4 39 36.14	...	93 28 23.6	M
154 <i>Anon.</i>						10	...	39 36.25	...	28 19.0	M
Jan. 3	7.5	4 35 35.17	...	125 52 36.2	M	18	...	39 36.11	...	28 20.4	M
4	7.5	35 35.06	...	52 37.5	M	19	...	39 36.03	...	28 20.0	M
5	7.5	35 35.15	...	52 37.0	M	Dec. 22	...	39 36.12	...	28 18.6	M
6	7.5	35 35.34	...	52 35.8	M	23	...	39 36.12	...	28 17.2	M
155 <i>Lacaille 1566. Stone (2012.)</i>						161 <i>Anon.</i>					
Jan. 7	6.5	4 36 4.45	...	143 26 13.4	M	Jan. 3	7.0	4 43 6.06	...	126 25 14.7	M
156 <i>Taylor 1654.</i>						4	7.0	43 6.14	...	25 14.3	M
Jan. 23	7.0	4 36 8.82	...	141 54 19.7	M	162 <i>Anon.</i>					
24	6.5	36 8.88	...	54 17.0	M	Jan. 5	8.0	4 44 40.43	...	149 26 8.2	M
25	6.5	36 9.00	...	54 16.9	M	6	8.0	44 40.56	...	26 6.1	M
31	...	36 8.82	...	54 17.4	M	17	...	44 40.30	3	26 7.0	M
Feb. 2	6.5	36 9.02	...	54 16.6	R	18	...	44 40.50	...	26 9.5	M
157 <i>W. B. E. IV. 755.</i>						19	8.5	44 40.33	...	26 8.4	M
Jan. 11	7.0	4 36 17.95	...	75 24 44.2	M	163 <i>Stone 2096.</i>					
12	7.0	36 17.86	...	24 42.7	M	Jan. 7	6.0	4 45 15.42	...	149 20 43.1	M
13	7.5	36 17.77	...	24 42.0	R	10	6.5	45 15.54	4	20 42.4	M
14	7.0	36 17.99	...	24 41.6	M	11	6.5	45 15.34	5	20 43.5	M
16	7.0	36 18.06	...	24 40.9	M	12	6.5	45 15.24	...	20 43.9	M
						13	7.0	45 15.52	...	20 43.3	M

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177 112 <i>Tauri</i> β						R. P. L. 41.—s.p.					
Jan. 8	...	5 18 50.01	...	61 29 38.8	M	Aug. 21	...	5 28 55.92	3	4 45 1.4	M
4	...	18 50.00	...	29 37.9	M	31	...	28 54.93	2	45 2.8	M
5	...	18 49.98	...	29 37.9	M	182 46 <i>Orionis</i> ε					
6	...	18 49.91	...	29 38.0	M	Jan. 27	...	5 30 13.52	...	91 16 43.1	M
7	...	18 49.95	...	29 39.0	M	Feb. 7	...	30 13.45	...	16 42.7	R
12	...	18 49.84	...	29 39.2	M	8	...	30 13.53	...	16 43.5	R
16	...	18 49.97	...	29 38.7	M	183 53 <i>Orionis</i> κ					
28	...	18 50.00	...	29 39.7	M	Jan. 18	...	5 42 9.46	...	99 42 48.4	M
30	...	18 50.00	...	29 38.4	M	20	...	42 9.56	...	42 48.2	M
31	...	18 49.82	...	29 41.3	M	21	...	42 9.46	...	42 48.7	M
Feb. 1	...	18 50.04	...	29 38.3	R	Feb. 7	...	42 9.50	...	42 45.1	R
2	...	18 50.01	...	29 37.8	R	9	...	42 9.60	...	42 44.2	R
4	...	18 49.89	...	29 36.8	R	10	...	42 9.51	...	42 44.8	R
11	...	18 49.96	...	29 36.9	R	11	...	42 9.56	...	42 44.5	R
178 R. P. L. 40.—s.p.						184 58 <i>Orionis</i> α, Var. 2. <i>Betelgeux</i> .					
July 26	...	5 24 18.62	3	4 52 1.8	R	Jan. 11	...	45 48 46.97	...	82 37 0.3	M
Aug. 23	...	24 19.20	3	52 3.9	M	Feb. 8	...	48 47.02	...	36 58.3	R
30	...	24 19.67	3	52 4.8	M	9	...	48 46.97	...	36 58.7	R
31	...	24 18.52	3	52 5.2	M	11	...	48 46.96	...	36 57.5	R
179 34 <i>Orionis</i> δ, Var. 1.						Mar. 17	...	48 47.02	...	37 2.3	M
Feb. 3	...	5 25 58.72	...	90 23 15.4	R	185 13 <i>Geminorum</i> μ					
180 11 <i>Leporis</i> α						Jan. 13	...	6 15 49.18	...	67 25 39.2	R
Jan. 10	...	5 27 31.42	...	107 54 28.7	M	23	...	15 49.25	...	25 41.9	M
25	...	27 31.57	...	54 29.2	M	186 31 <i>Geminorum</i> ξ					
Feb. 6	...	27 31.50	...	54 28.4	R	Jan. 24	...	6 38 39.85	...	76 58 46.3	M
181 R. P. L. 41.						Feb. 9	...	38 39.96	...	58 42.6	R
Jan. 11	...	5 28 54.49	3	4 45 2.1	M	10	...	38 39.98	...	58 41.6	R
14	...	28 53.53	3	45 0.3	M	11	...	38 40.03	...	58 41.5	R
19	...	28 55.83	3	45 0.3	M	Mar. 17	...	38 40.09	...	58 43.4	M
23	...	28 55.71	3	45 3.5	M	18	...	38 40.00	...	58 41.9	M
28	...	28 55.63	3	45 1.5	M	21	...	38 39.99	...	58 43.5	M
Feb. 1	...	28 54.79	3	45 0.0	R	22	...	38 39.92	...	58 42.4	M
2	...	28 54.82	3	45 4.2	R						
4	...	28 55.23	3	45 1.2	R						
9	...	28 55.16	3	45 1.1	R						

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187 W. B. N. VI. 1280.									
Jan. 23	8.0	6 44	10.06	...	47	14	35.4	M	
25	8.0	44	10.37	...	14	34.4	M		
26	...	44	10.18	...	14	34.5	M		
27	...	44	10.14	...	14	34.7	M		
28	8.0	44	10.34	...	14	35.0	M		
188 51 Cephei (Hev.).									
Mar. 17	...	6 44	45.98	3	2 46	21.3	M		
24	...	44	45.55	3	46	18.4	M		
25	...	44	44.80	3	46	18.2	M		
27	...	44	44.94	3	46	20.4	M		
28	...	44	47.97	3	46	19.3	M		
29	...	44	47.42	3	46	21.8	M		
30	...	44	46.32	3	46	19.7	M		
51 Cephei (Hev.).—s.p.									
Aug. 11	...	6 44	45.51	2	2 46	28.3	M		
22	...	44	47.55	3	46	29.0	M		
30	...	44	46.13	3	46	25.4	M		
189 14 Canis Majoris θ									
Feb. 10	...	6 48	42.27	...	101	53	29.5	R	
Mar. 18	...	48	42.52	...	53	29.5	M		
21	...	48	42.48	...	53	30.7	M		
22	...	48	42.55	...	53	29.4	M		
23	...	48	42.42	...	53	28.8	M		
190 Anon.									
Jan. 25	10.0	6 50	50.46	...	46	59	58.8	M	
28	...	50	50.44	...	47	0	0.1	M	
31	...	50	50.28	...	46	59	58.7	M	
Feb. 1	10.0	50	50.44	...	47	0	0.4	R	
191 W. B. N. VII. 604.									
Jan. 31	7.5	7 23	19.84	...	47	6	49.0	M	
Feb. 1	7.5	23	19.86	...	6	47.7	R		
2	7.5	23	19.72	...	6	50.5	R		
3	7.5	23	19.93	...	6	49.9	R		
4	7.8	23	19.81	...	6	49.8	R		
192 10 Canis Minoris α, Procyon.									
Mar. 17	...	7 33	7.41	...	84	28	26.1	M	
18	...	33	7.45	...	28	24.3	M		
21	...	33	7.60	...	28	25.0	M		
22	...	33	7.48	...	28	24.9	M		
193 Anon.									
Feb. 3	10.0	7 34	12.79	...	47	1	35.2	R	
4	9.8	34	12.59	...	1	34.6	R		
6	9.7	34	12.74	...	1	34.4	R		
7	9.7	34	12.65	...	1	33.7	R		
8	9.7	34	12.55	...	1	32.9	R		
194 R. P. L. 45.—s.p.									
Aug. 21	...	7 37	34.07	2	1	1	18.8	M	
195 7 Argus ξ									
Mar. 21	...	7 41	19.78	...	114	33	53.7	M	
22	...	41	19.85	...	33	51.9	M		
23	...	44	20.00	...	33	53.4	M		
24	...	44	20.01	...	33	51.6	M		
27	...	44	19.85	...	33	52.2	M		
28	...	44	19.86	...	33	52.2	M		
Apr. 3	...	44	19.86	...	33	50.5	R		
196 R. P. L. 48.									
Mar. 18	...	7 46	25.88	3	3	57	53.1	M	
25	...	46	23.79	3	57	54.2	M		
29	...	46	26.07	3	57	54.5	M		
30	...	46	25.34	3	57	55.0	M		
31	...	46	24.99	3	57	54.4	M		
Apr. 1	...	46	25.63	3	57	54.7	R		
4	...	46	25.02	3	57	52.2	R		
5	...	46	24.45	3	57	51.1	R		
6	...	46	24.48	3	57	53.7	R		
7	...	46	24.04	3	57	55.5	R		
R. P. L. 48.—s.p.									
Sep. 21	...	7 46	25.04	3	3	57	53.7	R	

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
197 <i>R. P. L. 49.—s.p.</i>										201 <i>R. P. L. 55.</i>									
Aug. 23	...	7	48	81.97	3	5	36	26.3	M	Mar. 17	...	8	31	18.20	3	5	40	39.0	M
28	...		48	31.50	3		36	26.2	M	18	...		31	18.21	3		40	35.6	M
Oct. 5	...		48	30.61	3		36	25.6	M	22	...		31	17.59	3		40	34.6	M
198 <i>6 Cancri.</i>										28	...		31	18.59	3		40	35.2	M
Mar. 17	...	7	56	16.08	...	61	52	29.1	M	25	...		31	17.45	3		40	36.2	M
23	...		56	16.27	...		52	33.1	M	29	...		31	17.96	3		40	38.0	M
23	...		56	16.17	...		52	32.8	M	30	...		31	17.91	3		40	37.7	M
24	...		56	16.14	...		52	32.8	M	31	...		31	18.45	3		40	37.9	M
25	...		56	16.09	...		52	33.7	M	Apl. 1	...		31	17.81	3		40	37.5	R
199 <i>17 Cancri β</i>										5	...		31	17.70	3		40	35.1	R
Mar. 27	...	8	10	6.90	...	80	27	7.4	M	<i>R. P. L. 55.—s.p.</i>									
28	...		10	6.89	...		27	6.6	M	Oct. 7	...	8	31	17.96	3	5	40	42.1	M
29	...		10	6.88	...		27	8.7	M	18	...		31	20.76	3		40	40.7	M
30	...		10	6.98	...		27	7.7	M	20	...		31	18.57	3		40	43.1	M
31	...		10	7.05	...		27	6.6	M	24	...		31	18.33	3		40	41.8	M
Apl. 1	...		10	6.89	...		27	6.4	R	25	...		31	18.42	3		40	39.0	M
3	...		10	6.95	...		27	5.3	R	202 <i>R. P. L. 60.—s.p.</i>									
4	...		10	6.89	...		27	4.0	R	Aug. 28	...	8	50	30.16	3	5	20	56.1	M
5	...		10	6.90	...		27	6.5	R	Oct. 5	...		50	29.55	3		21	0.5	M
6	...		10	6.79	...		27	8.2	R	6	...		50	29.75	3		20	56.0	M
200 <i>R. P. L. 53.</i>										7	...		50	30.17	3		20	57.3	M
Mar. 22	...	8	20	21.66	3	4	31	56.8	M	203 <i>9 Ursæ Majoris ι</i>									
23	...		20	22.74	3		31	53.8	M	Mar. 22	...	8	51	7.31	...	41	29	46.0	M
25	...		20	21.45	3		31	58.7	M	23	...		51	7.29	...		29	46.5	M
Apl. 4	...		20	22.01	3		31	56.8	R	25	...		51	7.37	...		29	47.8	M
5	...		20	21.75	3		31	55.6	R	29	...		51	7.39	...		29	46.0	M
6	...		20	20.64	3		31	56.1	R	30	...		51	7.39	...		29	45.5	M
7	...		20	21.39	3		31	56.4	R	31	...		51	7.31	...		29	46.9	M
8	...		20	21.93	3		31	55.3	R	Apl. 10	...		51	7.32	...		29	44.1	R
10	...		20	21.99	3		31	58.7	R	11	...		51	7.28	...		29	44.9	R
11	...		20	22.23	3		31	57.0	R	204 <i>76 Cancri κ</i>									
<i>R. P. L. 53.—s.p.</i>										Feb. 13	...	9	1	21.38	...	78	51	27.3	R
Sep. 21	...	8	20	22.57	3	4	31	56.2	R	15	...		1	21.28	...		51	28.6	R
23	...		20	21.74	3		31	58.6	R	16	...		1	21.37	...		51	27.2	R
Oct. 5	...		20	22.17	3		31	58.3	M	18	...		1	21.37	...		51	27.8	R
										20	...		1	21.34	...		51	26.9	R

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
Feb. 21	...	9	1	21.32	...	78	51	26.9	R	Feb. 23	...	9	34	51.08	...	79	34	16.8	R
22	...		1	21.36	...		51	27.1	R	24	...		34	51.14	...		34	16.6	R
24	...		1	21.25	...		51	27.5	R	25	...		34	51.11	...		34	16.7	R
25	...		1	21.34	...		51	27.9	R	27	...		34	51.13	...		34	17.0	R
Mar. 24	...		1	21.20	...		51	28.0	M	28	...		34	51.11	...		34	15.8	R
25	...		1	21.38	...		51	28.6	M	Mar. 1	...		34	51.15	...		34	20.4	M
28	...		1	21.39	...		51	27.0	M	2	...		34	51.11	...		34	17.8	M
29	...		1	21.38	...		51	30.9	M	3	...		34	51.21	...		34	16.5	M
30	...		1	21.35	...		51	28.5	M	4	...		34	51.11	...		34	17.5	M
31	...		1	21.32	...		51	29.1	M	Apl. 1	...		34	51.08	...		34	17.0	R
Apl. 1	...		1	21.35	...		51	30.2	R	4	...		34	51.09	...		34	15.0	R
3	...		1	21.35	...		51	27.1	R	5	...		34	51.09	...		34	16.5	R
4	...		1	21.34	...		51	29.1	R	6	...		34	51.03	...		34	16.7	R
5	...		1	21.38	...		51	27.8	R	7	...		34	51.09	...		34	17.0	R
205 <i>R. P. L. 62.</i>										8	...		34	51.10	...		34	16.7	R
Mar. 18	...	9	21	0.59	3	2	21	16.5	M	10	...		34	51.03	...		34	16.8	R
22	...		20	59.90	3		21	14.1	M	11	...		34	51.07	...		34	16.7	R
23	...		21	2.11	3		21	13.3	M	15	...		34	51.07	...		34	16.5	R
25	...		20	59.83	3		21	12.8	M	17	...		34	51.11	...		34	16.0	R
27	...		20	59.39	3		21	15.3	M	207 <i>R. P. L. 69.</i>									
29	...		21	3.35	3		21	12.1	M	Mar. 17	...	9	38	32.56	3	2	51	31.1	M
30	...		21	3.43	3		21	13.1	M	18	...		38	32.62	3		51	39.6	M
31	...		21	3.03	3		21	11.4	M	<i>R. P. L. 69.—s.p.</i>									
Apl. 1	...		21	0.32	3		21	13.5	R	Oct. 4	...	9	38	33.25	3	2	51	40.2	M
3	...		21	0.69	3		21	14.3	R	16	...		38	32.33	2		51	41.2	M
<i>R. P. L. 62.—s.p.</i>										20	...		38	33.85	2		51	36.3	M
Oct. 7	...	9	21	2.80	3	2	21	18.5	M	24	...		38	32.96	3		51	41.8	M
20	...		21	3.69	3		21	17.5	M	25	...		38	33.34	3		51	40.9	M
Nov. 1	...		21	0.70	3		21	15.0	R	Nov. 3	...		38	34.49	3		51	37.9	R
10	...		21	1.73	3		21	14.6	R	6	...		38	34.45	3		51	38.2	R
206 <i>14 Leonis α</i>										7	...		38	33.50	3		51	38.4	R
Feb. 13	...	9	34	51.18	...	79	34	15.9	R	208 <i>24 Leonis μ</i>									
14	...		34	51.10	...		34	15.4	R	Feb. 13	...	9	46	3.94	...	68	26	16.9	R
15	...		34	51.11	...		34	16.7	R	14	...		46	3.03	...		26	16.8	R
16	...		34	51.10	...		34	16.5	R	15	...		46	3.06	...		26	16.0	R
17	...		34	51.17	...		34	16.9	R	16	...		46	3.03	...		26	16.0	R
18	...		34	51.10	...		34	17.2	R	17	...		46	3.12	...		26	17.1	R
20	...		34	51.11	...		34	17.7	R	20	...		46	3.02	...		26	16.9	R
21	...		34	51.09	...		34	16.1	R	21	...		46	3.07	...		26	16.7	R
22	...		34	51.15	...		34	17.2	R	23	...		46	3.05	...		26	16.3	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
Feb. 24	...	9	46	3.02	...	68	26	16.8	R	214 <i>Anon.</i>									
25	...	46	3.05	26	16.8	R		Feb. 27	9.0	10	7	12.10	...	153	24	35.2	R
27	...	46	3.08	...	...	26	16.3	R		28	9.0	7	12.04	...	...	24	32.5	R	
28	...	46	3.03	...	...	26	15.8	R		Mar. 1	9.0	7	12.48	...	...	24	36.6	M	
Mar. 1	...	46	3.03	...	...	26	18.5	M		2	9.0	7	12.49	...	...	24	34.4	M	
2	...	46	3.01	...	...	26	17.7	M		3	9.0	7	12.43	...	...	24	34.7	M	
3	...	46	2.96	...	...	26	17.5	M		215 <i>Anon.</i>									
4	...	46	3.06	...	...	26	17.2	M		Feb. 13	9.0	10	11	6.88	...	152	0	15.3	R
7	...	46	3.14	...	...	26	18.1	M		20	9.5	11	6.90	...	...	0	16.1	R	
8	...	46	3.14	...	...	26	16.1	M		21	9.5	11	6.85	...	...	0	15.4	R	
9	...	46	3.13	...	...	26	17.4	M		23	9.5	11	6.82	...	...	0	14.1	R	
10	...	46	3.05	...	...	26	18.2	M		25	9.0	11	6.82	...	...	0	16.2	R	
15	...	46	3.00	...	...	26	16.5	M		216 <i>Stone 5606.</i>									
16	...	46	2.97	...	...	26	18.0	M		Feb. 16	7.5	10	11	43.22	...	151	56	58.0	R
209 <i>R. P. L. 70.</i>										17	7.5	11	43.13	4	...	56	57.6	R	
Feb. 14	...	9	49	29.65	3	5	30	49.6	R	18	7.5	11	43.16	...	...	56	59.0	R	
18	...	49	29.64	...	3	30	51.2	R		22	7.5	11	43.36	4	...	56	56.6	R	
22	...	49	29.15	...	3	30	49.7	R		24	7.5	11	43.07	4	...	56	55.9	R	
210 <i>R Velorum, Var. 1.</i>										217 <i>R. P. L. 72.</i>									
Feb. 18	7.0	10	1	42.40	...	141	36	50.7	R	Mar. 6	...	10	12	16.95	3	5	8	59.3	M
20	6.5	1	42.43	...	...	36	51.2	R		18	...	12	18.03	3	...	8	57.2	M	
211 <i>Anon.</i>										218 <i>Anon.</i>									
Feb. 21	7.5	10	1	59.17	...	150	35	52.8	R	Feb. 14	...	10	19	14.61	...	127	58	53.5	R
22	7.5	1	59.22	...	...	35	54.7	R		15	...	19	14.56	5	...	58	55.4	R	
23	9.0	1	59.23	...	...	35	54.6	R		16	9.0	19	14.31	...	...	58	54.1	R	
24	9.0	1	59.25	4	...	35	53.5	R		23	9.0	19	14.35	...	...	58	55.3	R	
25	7.5	1	59.35	...	...	35	53.1	R		25	9.0	19	14.45	...	...	58	51.9	R	
212 <i>Anon.</i>										219 <i>Taylor 4656.</i>									
Feb. 13	9.0	10	3	2.44	...	126	29	3.0	R	Feb. 13	8.0	10	19	21.32	...	151	7	13.3	R
213 <i>Anon.</i>										21	8.0	19	21.34	...	...	7	12.7	R	
Feb. 14	9.3	10	3	11.14	...	127	21	37.3	R	27	8.0	19	21.15	...	...	7	11.4	R	
15	9.3	3	11.07	21	36.9	R		Mar. 1	7.9	19	21.52	7	13.8	M	
16	9.3	3	10.99	21	37.9	R		3	7.7	19	21.40	7	11.6	M	

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
220 <i>42 Hydræ μ</i>										225 <i>Taylor 4781.</i>									
Mar. 6	...	10	20	23.04	...	106	14	4.0	M	Feb. 25	8.0	10	32	5.75	...	148	34	42.6	R
7	...		20	22.97	...		14	8.7	M	27	8.0		32	5.76	...		34	42.3	R
8	...		20	22.94	...		14	2.7	M	Mar. 1	7.0		32	5.87	...		34	44.8	M
9	...		20	22.94	...		14	2.6	M	3	7.0		32	5.80	...		34	43.0	M
10	...		20	22.94	...		14	3.8	M	7	...		32	5.49	...		34	43.3	M
11	...		20	22.91	...		14	4.7	M	9	7.0		32	5.80	...		34	44.2	M
13	...		20	22.85	...		14	2.8	M	226 <i>Taylor 4783.</i>									
15	...		20	23.04	...		14	2.6	M	Feb. 28	7.0	10	32	12.63	...	148	33	22.0	R
16	...		20	23.18	...		14	4.3	M	Mar. 2	7.0		32	12.96	...		33	21.7	M
18	...		20	22.98	...		14	3.7	M	4	7.0		32	12.75	...		33	20.3	M
221 <i>Taylor 4674.</i>										8	7.0		32	12.72	...		33	21.9	M
Feb. 17	7.0	10	21	15.51	5	128	45	43.6	R	10	7.0		32	12.50	...		33	23.0	M
22	7.0		21	15.27	...		45	40.3	R	227 <i>Stone 5854.</i>									
28	7.0		21	15.39	...		45	41.8	R	Feb. 13	9.0	10	33	35.76	...	149	32	5.0	R
Mar. 2	7.0		21	15.61	...		45	42.4	M	15	9.0		33	35.85	...		32	2.2	R
4	7.0		21	15.52	...		45	40.4	M	20	8.0		33	35.62	...		32	5.9	R
222 <i>Anon.</i>										21	8.0		33	35.62	...		32	4.8	R
Feb. 13	8.0	10	26	22.14	...	150	43	54.6	R	22	8.0		33	35.72	...		32	7.0	R
20	8.0		26	22.08	...		43	54.8	R	228 <i>Taylor 4831.</i>									
21	8.0		26	21.93	...		43	52.6	R	Feb. 16	6.7	10	38	1.04	...	146	15	33.2	R
22	8.0		26	21.96	...		43	53.7	R	23	7.0		38	0.93	...		15	33.6	R
25	8.0		26	22.04	...		43	52.8	R	25	7.0		38	0.85	...		15	32.4	R
223 <i>Taylor 4728.</i>										28	7.0		38	0.81	...		15	33.1	R
Feb. 16	6.7	10	26	27.46	...	150	45	6.0	R	Mar. 2	7.0		38	1.04	...		15	31.0	M
18	7.0		26	27.23	...		45	7.0	R	229 <i>Anon.</i>									
23	6.7		26	27.25	...		45	6.5	R	Feb. 15	9.0	10	40	57.32	...	127	13	6.3	R
27	6.7		26	27.41	...		45	6.0	R	22	9.0		40	57.25	...		13	4.9	R
28	6.7		26	27.37	...		45	6.5	R	24	9.0		40	57.28	...		13	2.9	R
224 <i>Anon.</i>										27	9.0		40	57.45	...		13	7.1	R
Feb. 15	...	10	27	17.66	4	128	41	37.0	R	Mar. 1	9.0		40	57.47	...		13	7.9	M
Mar. 8	9.0		27	17.76	...		41	36.2	M	230 <i>Taylor 4869.</i>									
11	9.0		27	17.77	...		41	37.6	M	Feb. 13	7.0	10	41	36.61	...	148	41	51.1	R
13	9.0		27	17.57	...		41	35.5	M	20	7.0		41	36.39	...		41	51.9	R
14	...		27	17.66	...		41	40.0	M	21	7.0		41	36.34	...		41	50.4	R
										Mar. 4	7.0		41	36.59	...		41	50.6	M
										6	7.5		41	36.99	...		41	49.7	M

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h. m. s.				° ' "		h. m. s.				° ' "	
231 <i>Anon.</i>						Apl. 10	...	10 54 27.99	...	85 44 56.2	R
Feb. 14	9.0	10 41 43.82	...	137 6 38.0	R	11	...	54 27.98	...	44 56.1	R
						15	...	54 27.94	...	44 56.6	R
						17	...	54 27.96	...	44 56.1	R
						18	...	54 27.96	...	44 56.1	R
						19	...	54 27.96	...	44 57.8	R
						20	...	54 27.95	...	44 57.4	R
232 <i>Taylor 4912.</i>											
Feb. 16	6.0	10 46 58.26	...	146 38 45.3	R						
27	6.5	46 58.40	...	38 46.9	R						
28	6.5	46 58.36	...	38 46.3	R						
Mar. 1	6.5	46 58.31	4	38 45.5	M						
233 <i>Anon.</i>											
Feb. 13	7.0	10 48 35.40	...	150 11 14.4	R						
234 <i>Anon.</i>											
Feb. 14	8.0	10 48 43.02	...	126 37 53.1	R						
15	8.0	48 42.93	...	37 54.1	R						
18	8.0	48 42.66	...	37 54.8	R						
20	8.0	48 42.84	...	37 55.3	R						
22	8.0	48 42.71	...	37 54.5	R						
235 <i>Anon.</i>											
Feb. 23	9.0	10 49 51.31	...	150 25 3.2	R						
Mar. 8	9.0	49 51.26	...	25 4.1	M						
4	8.5	49 51.33	...	25 4.4	M						
7	...	49 51.13	...	25 5.9	M						
8	8.5	49 51.23	...	25 3.5	M						
236 <i>58 Leonis d.</i>											
Feb. 14	...	10 54 27.87	...	85 44 57.5	R						
17	...	54 27.98	...	44 56.5	R						
18	...	54 27.89	...	44 57.5	R						
22	...	54 27.97	...	44 57.8	R						
23	...	54 27.90	...	44 57.1	R						
24	...	54 27.90	...	44 57.2	R						
28	...	54 27.88	...	44 55.7	R						
Mar. 6	...	54 28.09	...	44 57.4	M						
11	...	54 28.07	...	44 58.3	M						
18	...	54 27.98	...	44 58.4	M						
Apl. 6	...	54 27.98	...	44 55.3	R						
7	...	54 27.98	...	44 55.2	R						
8	...	54 27.96	...	44 57.1	R						
237 <i>Anon.</i>											
Feb. 13	9.0	10 55 15.05	...	148 15 4.1	R						
15	9.0	55 15.10	...	15 2.0	R						
21	9.0	55 14.85	...	15 6.4	R						
25	9.0	55 14.99	...	15 6.1	R						
27	9.0	55 14.99	...	15 6.1	R						
238 <i>Anon.</i>											
Feb. 16	9.0	10 55 30.13	...	148 20 56.6	R						
20	8.6	55 29.95	...	21 0.2	R						
Mar. 1	8.5	55 30.16	...	20 58.5	M						
2	8.5	55 30.20	...	20 59.2	M						
3	8.5	55 30.18	...	20 56.9	M						
239 <i>Taylor 5033.</i>											
Feb. 24	6.0	10 59 12.99	...	137 2 38.3	R						
Mar. 7	...	59 12.63	...	2 38.9	M						
9	6.0	59 12.87	...	2 39.3	M						
10	6.0	59 12.65	...	2 37.5	M						
Apl. 7	6.0	59 12.76	...	2 40.7	R						
240 <i>Anon.</i>											
Feb. 15	9.0	10 59 21.04	5	131 0 22.4	R						
27	9.0	59 21.12	...	0 23.3	R						
28	9.0	59 21.08	...	0 22.1	R						
Mar. 4	9.0	59 21.20	...	0 23.7	M						
8	9.0	59 21.37	...	0 24.0	M						
241 <i>R. P. L. 80.</i>											
Mar. 21	...	11 0 8.00	3	3 43 14.9	M						
23	...	0 3.79	3	43 12.5	M						
24	...	0 1.58	3	43 9.4	M						
28	...	0 4.29	3	43 13.8	M						
30	...	0 3.38	3	43 11.7	M						
31	...	0 3.19	3	43 13.0	M						

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.
251 <i>Anon.</i>						Apl. 6	...	11 22 40·81	3	4 38 36·9	R
Feb. 25	9·0	11 18 36·98	...	147 0 36·3	R	7	...	22 40·13	3	38 38·0	R
28	9·0	18 36·94	...	0 34·9	R	8	...	22 41·04	3	38 38·5	R
Mar. 3	8·5	18 36·92	...	0 34·3	M	<i>R. P. L. 81.—s.p.</i>					
4	8·5	18 37·01	...	0 38·1	M	Oct. 16	...	11 22 41·77	3	4 38 36·8	M
14	9·0	18 37·11	...	0 37·4	M	Nov. 1	...	22 40·37	3	38 34·6	R
252 <i>Anon.</i>						3	...	22 42·25	3	38 37·8	R
Feb. 14	8·0	11 19 41·71	...	149 0 13·3	R	7	...	22 41·64	3	38 39·3	R
16	8·5	19 41·57	...	0 12·1	R	Dec. 1	...	22 41·87	3	38 39·3	M
23	9·0	19 41·54	...	0 12·7	R	4	...	22 40·79	3	38 39·5	M
24	9·0	19 41·51	...	0 12·0	R	7	...	22 41·58	3	38 35·9	M
27	8·0	19 41·52	...	0 13·2	R	8	...	22 41·76	3	38 38·8	M
253 <i>Anon.</i>						11	...	22 40·24	3	38 38·5	R
Feb. 13	7·5	11 20 12·06	...	142 55 20·0	R	12	...	22 41·64	3	38 37·4	R
15	7·5	20 12·13	...	55 18·2	R	256 <i>Anon.</i>					
17	7·5	20 12·06	...	55 18·9	R	Feb. 13	9·0	11 26 21·33	...	141 48 18·0	R
21	7·0	20 11·83	...	55 20·8	R	14	9·5	26 21·49	...	48 17·5	R
22	7·0	20 11·90	...	55 21·4	R	24	9·5	26 21·46	...	48 18·4	R
254 <i>84 Leonis τ</i>						28	9·5	26 21·19	...	48 14·2	R
Feb. 18	...	11 21 52·04	...	86 29 39·3	R	Mar. 3	9·5	26 21·30	...	48 16·4	M
Mar. 1	...	21 52·25	...	29 39·7	M	257 <i>R. P. L. 82.</i>					
2	...	21 52·27	...	29 38·3	M	Apl. 4	...	11 26 31·91	3	3 48 56·6	R
6	...	21 52·23	...	29 39·5	M	6	...	26 31·34	3	43 57·1	R
7	...	21 52·25	...	29 39·5	M	7	...	26 31·11	3	43 57·6	R
8	...	21 52·22	...	29 38·0	M	15	...	26 32·22	3	43 57·9	R
9	...	21 52·23	...	29 39·6	M	17	...	26 32·33	3	43 57·5	R
10	...	21 52·14	...	29 38·5	M	18	...	26 32·61	3	43 58·2	R
11	...	21 52·17	...	29 40·3	M	19	...	26 31·86	3	43 59·3	R
13	...	21 52·22	...	29 39·2	M	21	...	26 31·37	3	43 59·0	R
255 <i>R. P. L. 81.</i>						22	...	26 33·06	3	44 0·0	R
Mar. 29	...	11 22 40·93	3	4 38 37·2	M	27	...	26 33·38	3	43 58·3	R
30	...	22 41·11	3	38 36·1	M	<i>R. P. L. 82.—s.p.</i>					
31	...	22 40·76	3	38 36·0	M	Oct. 25	...	11 26 34·13	3	8 43 56·4	M
Apl. 1	...	22 41·63	2	38 36·7	R	Nov. 8	...	26 33·58	3	43 58·4	R
3	...	22 41·17	3	38 38·0	R	Dec. 2	...	26 34·10	3	43 57·3	M
4	...	22 40·95	3	38 37·1	R	5	...	26 33·64	3	43 56·3	M
5	...	22 41·07	3	38 36·4	R	14	...	26 34·34	3	43 55·5	M

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Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
258 <i>Anon.</i>										265 <i>Anon.</i>									
Feb. 20	9.0	11	28	5.82	...	180	38	6.0	R	Feb. 13	9.0	11	40	7.24	...	132	55	38.4	R
21	9.0		28	5.78	...		38	5.0	R	20	9.0		40	6.98	...		55	40.8	R
23	9.0		28	5.54	...		38	5.0	R	24	9.0		40	6.95	...		55	38.8	R
27	9.0		28	5.73	...		38	5.1	R	Mar. 1	9.0		40	7.21	...		55	40.6	M
Mar. 2	8.5		28	5.79	...		38	3.1	M	4	9.0		40	7.33	...		55	38.7	M
259 <i>Anon.</i>										266 <i>Anon.</i>									
Mar. 8	8.0	11	28	30.29	...	130	30	7.3	M	Feb. 23	9.5	11	40	46.61	...	129	11	23.8	R
9	8.5		28	30.29	...		30	8.5	M	Mar. 8	9.3		40	46.80	...		11	23.8	M
13	9.0		28	30.17	...		30	7.8	M	11	9.5		40	46.69	...		11	24.4	M
260 <i>Taylor 5317.</i>										13	9.5		40	46.62	...		11	25.4	M
Feb. 17	9.0	11	30	45.39	...	125	28	5.4	R	14	9.5		40	46.78	...		11	24.2	M
Mar. 4	7.0		30	45.49	...		28	6.9	M	267 <i>Anon.</i>									
7	...		30	45.34	...		28	7.4	M	Feb. 16	9.0	11	40	57.25	...	127	13	12.9	R
10	7.0		30	45.60	...		28	7.3	M	268 <i>Taylor 5420.</i>									
14	...		30	45.54	...		28	6.9	M	Feb. 27	6.0	11	43	38.31	...	149	46	10.5	R
261 <i>Anon.</i>										Mar. 2	6.5		43	38.22	...		46	9.8	M
Feb. 14	9.5	11	32	0.27	...	153	2	48.0	R	3	6.5		43	38.19	...		46	8.0	M
262 <i>Anon.</i>										269 <i>Anon.</i>									
Feb. 13	8.5	11	33	57.76	...	133	59	14.1	R	Feb. 13	8.0	11	47	1.10	...	131	7	21.6	R
15	8.5		33	57.79	...		59	12.8	R	14	8.0		47	1.20	...		7	21.1	R
21	8.5		33	57.56	...		59	13.3	R	20	8.0		47	1.01	...		7	23.4	R
24	8.5		33	57.65	...		59	12.9	R	22	8.0		47	1.10	...		7	21.9	R
27	8.5		33	57.54	...		59	12.4	R	24	8.0		47	1.20	...		7	20.8	R
263 <i>Anon.</i>										270 <i>Anon.</i>									
Mar. 2	9.5	11	34	22.12	...	152	59	14.9	M	Feb. 23	9.0	11	47	9.49	...	134	40	38.1	R
3	9.5		34	21.92	...		59	16.8	M	25	9.0		47	9.55	...		40	37.4	R
8	9.5		34	22.02	...		59	15.7	M	28	9.0		47	9.49	...		40	40.7	R
9	9.5		34	22.25	...		59	14.5	M	Mar. 1	9.0		47	9.72	...		40	41.2	M
264 <i>Anon.</i>										7	...		47	9.43	...		40	41.3	M
Feb. 14	8.0	11	39	7.93	...	133	57	15.8	R	271 <i>Anon.</i>									
18	8.0		39	7.64	3		57	15.8	R	Feb. 15	8.0	11	49	29.08	...	126	37	51.3	R
22	8.0		39	7.64	...		57	16.5	R	16	8.0		49	28.92	4		37	51.1	R
25	8.0		39	7.78	...		57	16.3	R	Mar. 3	8.0		49	28.90	...		37	52.2	M
28	8.0		39	7.71	...		57	14.9	R	4	8.0		49	29.15	...		37	52.0	M
										8	8.5		49	29.06	...		37	52.2	M

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h. m. s.				° ' "				h. m. s.		° ' "	
272 <i>Anon.</i>						278 <i>R. P. L. 89.</i>					
Feb. 21	7.5	11 51 12.54	...	158 1 11.6	R	Feb. 25	...	11 58 48.45	3	3 45 34.7	R
Mar. 2	8.0	51 12.43	...	1 10.6	M	Apr. 3	...	58 47.18	3	45 30.3	R
9	8.0	51 12.33	...	1 11.6	M	4	...	58 47.31	3	45 35.3	R
10	8.0	51 12.18	...	1 13.1	M	5	...	58 47.22	3	45 35.1	R
273 <i>Anon.</i>						6	...	58 47.22	3	45 30.0	R
Feb. 13	7.5	11 52 35.71	...	182 46 48.8	R	11	...	58 46.08	3	45 35.5	R
24	8.0	52 35.61	...	46 49.3	R	17	...	58 47.00	3	45 35.5	R
25	7.5	52 35.58	...	46 49.1	R	<i>R. P. L. 89.—s.p.</i>					
Mar. 6	...	52 35.57	...	46 49.8	M	Dec. 5	...	11 58 48.26	3	3 45 33.3	M
7	...	52 35.40	...	46 50.9	M	12	...	58 48.33	3	45 31.2	R
274 <i>R. P. L. 87.—s.p.</i>						13	...	58 48.23	2	45 34.5	R
Nov. 6	...	11 53 28.06	3	2 20 55.1	R	14	...	58 49.38	3	45 32.7	M
275 <i>8 Virginis π</i>						15	...	58 47.07	3	45 35.0	M
Feb. 15	...	11 54 49.54	...	82 43 37.5	R	16	...	58 47.79	3	45 35.5	M
16	...	54 49.49	...	43 37.5	R	18	...	58 48.35	3	45 31.9	M
27	...	54 49.57	...	43 38.4	R	19	...	58 47.06	3	45 34.7	M
28	...	54 49.55	...	43 38.4	R	20	...	58 47.84	3	45 32.7	M
Mar. 3	...	54 49.75	...	43 37.8	M	279 <i>Stone 6739.</i>					
4	...	54 49.61	...	43 40.2	M	Feb. 21	7.0	11 59 18.56	...	152 19 8.5	R
11	...	54 49.40	...	43 41.8	M	22	7.0	59 18.51	...	19 9.4	R
13	...	54 49.56	...	43 39.1	M	24	7.0	59 18.40	...	19 7.6	R
14	...	54 49.63	...	43 38.7	M	27	7.0	59 18.37	...	19 9.0	R
15	...	54 49.49	...	43 39.1	M	Mar. 1	...	59 18.67	...	19 11.0	M
276 <i>Anon.</i>						280 <i>2 Corvi ε</i>					
Feb. 20	9.5	11 55 23.50	...	151 57 10.8	R	Mar. 14	...	12 4 3.30	...	111 57 50.2	M
23	9.5	55 23.29	...	57 10.8	R	15	...	4 3.33	...	57 48.3	M
Mar. 8	9.0	55 23.41	...	57 6.6	M	16	...	4 3.46	...	57 48.7	M
9	9.0	55 23.43	...	57 10.0	M	Apr. 7	...	4 3.41	...	57 46.7	R
10	9.0	55 23.43	...	57 11.0	M	8	...	4 3.39	...	57 46.7	R
277 <i>Anon.</i>						10	...	4 3.44	...	57 48.5	R
Feb. 13	8.5	11 58 28.15	...	152 55 17.7	R	15	...	4 3.42	...	57 50.8	R
18	8.5	58 28.15	...	55 17.2	R	17	...	4 3.40	...	57 47.4	R
Mar. 2	8.5	58 28.25	...	55 18.9	M	18	...	4 3.39	...	57 50.0	R
7	...	58 28.24	5	55 16.2	M	19	...	4 3.43	...	57 48.2	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
281 <i>R. P. L. 90.—s.p.</i>										Mar. 4	...	12	23	45.57	...	105	51	30.2	M
Oct. 25	...	12	7	34.08	3	2	24	40.6	M	7	...	23	45.41	51	32.7	M	
Nov. 3	...	7	33.48	8	...	24	43.6	...	R	8	...	23	45.50	...	...	51	29.9	M	
6	...	7	32.47	3	...	24	42.4	...	R	9	...	23	45.42	...	...	51	30.0	M	
Dec. 2	...	7	33.89	3	...	24	44.3	...	M	10	...	23	45.68	...	...	51	32.3	M	
4	...	7	33.75	3	...	24	43.5	...	M	16	...	23	45.50	...	...	51	32.8	M	
5	...	7	34.23	3	...	24	44.1	...	M	Apl. 20	...	23	45.69	...	...	51	28.9	R	
7	...	7	33.99	3	...	24	40.5	...	M	21	...	23	45.74	...	...	51	28.5	R	
12	...	7	33.95	8	...	24	43.7	...	R	22	...	23	45.73	...	...	51	30.1	R	
13	...	7	33.62	3	...	24	41.7	...	R	May 5	...	23	45.66	...	...	51	31.6	M	
282 <i>15 Virginis η</i>										6	...	23	45.72	...	...	51	31.9	M	
Mar. 14	...	12	13	52.24	...	90	0	40.8	M	8	...	23	45.80	...	...	51	32.2	M	
15	...	13	52.29	...	...	0	39.9	...	M	9	...	23	45.79	...	...	51	31.8	M	
Apl. 11	...	13	52.02	...	...	0	39.0	...	R	10	...	23	45.68	...	...	51	32.7	M	
18	...	13	52.07	...	...	0	37.9	...	R	11	...	23	45.72	...	...	51	31.1	M	
19	...	13	52.05	...	...	0	38.6	...	R	12	...	23	45.69	...	...	51	31.4	M	
20	...	13	52.07	...	...	0	37.1	...	R	13	...	23	45.65	...	...	51	32.5	M	
21	...	13	52.08	...	...	0	37.7	...	R	15	...	23	45.86	...	...	51	30.3	M	
22	...	13	52.08	...	...	0	40.8	...	R	285 <i>29 Virginis γ^1</i>									
27	...	18	52.13	...	...	0	38.7	...	R	Apl. 21	...	12	35	40.82	...	90	48	5.1	R
28	...	13	52.14	...	...	0	38.9	...	R	27	...	35	40.83	...	...	48	4.8	R	
283 <i>R. P. L. 93.—s.p.</i>										May 4	...	35	40.99	...	...	48	2.1	M	
Dec. 4	...	13	14	21.23	2	1	38	47.2	M	5	...	35	40.88	...	...	48	2.3	M	
14	...	14	24.00	3	...	38	47.1	...	M	6	...	35	40.80	...	...	48	1.7	M	
15	...	14	20.65	2	...	38	48.9	...	M	8	...	35	40.92	...	...	48	3.0	M	
16	...	14	20.45	2	...	38	49.8	...	M	9	...	35	40.83	...	...	48	3.1	M	
284 <i>7 Corvi δ^2</i>										10	...	35	40.90	...	...	48	3.7	M	
Feb. 13	...	12	23	45.61	...	105	51	28.1	R	11	...	35	40.82	...	...	48	7.0	M	
14	...	23	45.71	...	...	51	28.2	...	R	12	...	35	40.86	...	...	48	2.2	M	
20	...	23	45.65	...	...	51	30.2	...	R	286 <i>R. P. L. 97.</i>									
21	...	23	45.63	...	...	51	29.1	...	R	Apl. 15	...	12	37	32.11	3	5	42	30.0	R
22	...	23	45.67	...	...	51	30.8	...	R	17	...	37	32.80	3	...	42	28.4	R	
23	...	23	45.63	...	...	51	29.8	...	R	18	...	37	32.39	3	...	42	29.8	R	
25	...	23	45.63	...	...	51	30.0	...	R	19	...	37	32.39	3	...	42	29.6	R	
27	...	23	45.65	...	...	51	28.5	...	R	22	...	37	32.05	3	...	42	30.5	R	
Mar. 1	...	28	45.45	...	...	51	30.8	...	M	23	...	37	32.48	3	...	42	29.5	R	
2	...	28	45.48	51	31.2	...	M	29	...	37	32.91	3	...	42	29.4	R	
3	...	28	45.46	51	31.3	...	M	May 1	...	37	32.49	3	...	42	30.2	M	
										2	...	37	32.70	3	...	42	27.8	M	
										3	...	37	33.06	3	...	42	28.4	M	

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
R. P. L. 97.—s.p.										290 47 Virginis ε, Vindemiatrix.									
Dec. 12	...	12	37	32.06	3	5	42	30.9	R	May 23	...	12	56	18.21	...	78	24	24.5	M
13	...		37	32.39	3		42	31.1	R	24	...		56	18.35	...		24	24.4	M
14	...		37	32.94	3		42	31.5	M	25	...		56	18.25	...		24	21.8	M
15	...		37	32.95	2		42	31.2	M	27	...		56	18.25	...		24	22.8	M
19	...		37	32.74	3		42	31.0	M	29	...		56	18.16	...		24	24.6	M
20	...		37	32.77	3		42	32.2	M	30	...		56	18.21	...		24	23.2	M
287 R. P. L. 98.										31	...		56	18.11	...		24	22.8	M
Apl. 15	...	12	48	8.42	3	5	56	26.8	R	June 6	...		56	18.21	...		24	21.5	R
18	...		48	8.46	3		56	26.8	R	8	...		56	18.21	...		24	21.9	R
19	...		48	8.00	3		56	28.6	R	10	...		56	18.18	...		24	24.3	R
21	...		48	8.88	3		56	28.1	R	291 Anon.									
27	...		48	8.63	3		56	27.9	R	Mar. 8	8.0	18	0	24.30	...	127	6	36.2	M
28	...		48	8.46	3		56	26.4	R	11	8.0		0	24.46	...		6	35.5	M
29	...		48	8.89	3		56	26.2	R	13	...		0	24.37	...		6	36.6	M
R. P. L. 98.—s.p.										15	8.0		0	24.35	...		6	35.5	M
Nov. 10	...	12	48	8.24	3	5	56	27.5	R	Apl. 17	8.0		0	24.19	...		6	36.7	R
Dec. 5	...		48	9.20	3		56	28.7	M	292 R. P. L. 100.									
13	...		48	9.25	3		56	29.0	R	Apl. 28	...	13	0	30.10	3	3	28	46.9	R
19	...		48	9.06	2		56	26.7	M	May 1	...		0	29.88	3		28	44.4	M
29	...		48	9.02	3		56	27.7	M	2	...		0	28.44	3		28	45.4	M
288 R. P. L. 99.										4	...		0	29.69	3		28	46.9	M
Apl. 17	...	12	48	16.01	3	5	56	45.9	R	5	...		0	29.87	3		28	47.2	M
R. P. L. 99.—s.p.										6	...		0	28.57	3		28	45.6	M
Nov. 11	...	12	48	16.75	3	5	56	47.5	R	8	...		0	29.29	3		28	46.3	M
14	...		48	16.06	3		56	46.0	R	9	...		0	29.10	3		28	46.8	M
Dec. 7	...		48	16.25	3		56	45.1	M	12	...		0	29.94	3		28	45.6	M
289 12 Canum Venaticorum α										15	...		0	29.79	3		28	44.9	M
Mar. 15	...	12	50	30.24	...	51	2	34.5	M	R. P. L. 100.—s.p.									
May 4	...		50	30.38	...		2	35.7	M	Dec. 22	...	13	0	30.08	3	3	28	47.5	M
5	...		50	30.84	...		2	35.9	M	293 Anon.									
										Mar. 2	8.5	13	1	21.33	...	137	3	28.3	M
										6	...		1	21.41	...		3	31.1	M
										9	8.5		1	21.42	...		3	31.7	M
										10	8.5		1	21.35	...		3	30.4	M
										14	8.5		1	21.60	...		3	30.4	M

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
294 <i>Anon.</i>						299 <i>Stone 7283.</i>					
Apl. 27	9.0	13 2 5.00	...	152 14 28.6	R	Apl. 29	6.5	13 10 37.63	...	152 49 36.4	R
29	9.0	2 4.81	...	14 26.8	R	May 13	...	10 37.85	...	40 43.3	M
May 13	...	2 4.95	...	14 31.4	M	25	...	10 37.60	...	40 28.3	M
27	9.0	2 5.07	...	14 29.4	M	27	8.5	10 37.92	...	49 35.7	M
29	...	2 5.22	...	14 28.9	M	29	7.0	10 37.93	...	49 39.0	M
295 <i>Anon.</i>						300 <i>Stone 7291.</i>					
Feb. 27	8.0	13 4 4.97	4	142 52 59.3	R	Mar. 2	7.0	13 11 31.19	...	135 8 31.4	M
Mar. 1	8.5	4 4.93	...	52 59.4	M	6	...	11 30.85	...	8 30.9	M
8	8.5	4 4.91	...	52 56.5	M	7	...	11 30.81	...	8 31.9	M
7	...	4 4.93	5	53 0.3	M	10	7.0	11 30.97	...	8 31.1	M
Apl. 18	8.0	4 4.87	...	52 58.8	R	15	7.0	11 31.18	...	8 31.3	M
296 <i>Anon.</i>						301 <i>Anon.</i>					
Mar. 11	8.0	13 5 10.35	...	124 59 21.2	M	Mar. 3	9.5	13 11 56.69	...	135 3 40.2	M
15	8.0	5 10.42	...	59 18.8	M	Apl. 21	9.5	11 56.53	...	3 41.1	R
Apl. 19	8.0	5 10.27	...	59 18.6	R	22	9.5	11 56.73	...	3 41.7	R
20	8.0	5 10.18	...	59 18.4	R	27	9.5	11 56.67	...	3 42.9	R
21	8.0	5 10.33	...	59 17.8	R	28	9.5	11 56.62	...	3 42.3	R
297 <i>R. P. L. 101.</i>						302 <i>Anon.</i>					
May 3	...	13 7 16.14	3	1 43 0.2	M	Mar. 8	9.0	13 15 33.61	...	125 4 43.4	M
22	...	7 17.90	3	43 0.6	M	9	9.0	15 33.85	...	4 42.5	M
23	...	7 17.77	3	43 5.8	M	13	8.5	15 33.60	...	4 42.9	M
26	...	7 15.68	2	43 0.6	M	Apl. 17	9.0	15 33.58	...	4 43.3	R
30	...	7 16.22	3	43 0.6	M	303 <i>Taylor 6163.</i>					
June 21	...	7 15.12	2	43 0.6	R	Mar. 14	6.5	13 16 51.26	...	187 16 23.3	M
22	...	7 15.06	3	43 2.0	R	Apl. 18	6.5	16 51.22	...	16 19.4	R
<i>R. P. L. 101.—s.p.</i>						19	6.5	16 51.25	...	16 21.3	R
Dec. 4	...	13 7 18.26	3	1 43 2.2	M	20	6.5	16 51.16	4	16 20.7	R
16	...	7 19.02	3	43 2.6	M	22	6.5	16 51.45	...	16 21.3	R
298 <i>Anon.</i>						304 <i>Anon.</i>					
Feb. 27	9.0	13 9 22.87	...	145 35 32.3	R	May 25	...	13 17 9.70	3	131 17 10.0	M
Mar. 8	9.0	9 22.84	...	35 29.6	M	30	...	17 9.73	...	17 10.1	M
9	9.0	9 22.86	...	35 32.1	M	31	...	17 9.57	...	17 10.3	M
13	9.0	9 22.79	...	35 33.7	M	June 5	7.5	17 9.62	...	17 8.1	R
14	9.0	9 22.94	...	35 33.1	M						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
305 <i>Anon.</i>									
Feb. 27	8.0	13	17	39.47	...	148	18	2.9	B
Mar. 1	9.0		17	39.75	...		18	5.9	M
7	...		17	39.87	...		18	6.1	M
10	8.0		17	39.26	...		18	6.5	M
Apl. 21	9.0		17	39.61	5		18	8.5	B
306 <i>R. P. L. 103.</i>									
May 1	...	18	19	25.01	3	4	37	44.5	M
27	...		19	24.32	3		37	44.8	M
29	...		19	24.13	3		37	44.6	M
<i>R. P. L. 103.—s.p.</i>									
Dec. 20	...	18	19	26.25	3	4	37	45.1	M
307 <i>Anon.</i>									
Mar. 2	9.0	13	20	9.98	...	143	13	19.3	M
3	9.0		20	9.69	...		13	18.1	M
6	...		20	9.55	...		13	21.8	M
15	9.0		20	9.55	...		13	20.3	M
Apl. 27	9.0		20	9.68	...		13	19.9	R
308 <i>Anon.</i>									
Apl. 20	7.0	13	22	22.85	...	125	9	46.8	R
21	7.0		22	22.81	...		9	46.9	R
22	7.0		22	23.04	...		9	47.3	R
28	7.0		22	23.16	...		9	46.7	R
29	7.0		22	23.08	...		9	45.9	R
309 <i>Anon.</i>									
Mar. 8	9.0	18	22	49.44	...	126	56	52.5	M
9	9.0		22	40.49	...		56	52.2	M
11	9.0		22	49.33	...		56	54.9	M
13	9.0		22	49.16	...		56	52.9	M
Apl. 13	9.0		22	49.34	...		56	54.0	R
310 <i>Anon.</i>									
May 29	7.0	13	26	3.04	...	126	14	50.4	M
30	7.0		26	2.93	...		14	50.7	M
31	...		26	3.08	...		14	49.6	M
June 5	7.0		26	3.08	...		14	48.8	R
6	7.0		26	2.88	...		14	49.7	R
311 <i>Taylor 6262.</i>									
Apl. 27	6.5	13	27	11.91	...	152	1	27.0	R
May 13	...		27	12.03	...		1	26.0	M
17	7.0		27	11.74	...		1	27.1	M
23	7.0		27	12.03	...		1	28.5	M
24	...		27	11.86	...		1	29.4	M
312 <i>Anon.</i>									
Mar. 3	7.5	13	27	33.41	...	140	11	7.7	M
6	...		27	33.17	...		11	8.6	M
7	...		27	33.10	...		11	8.9	M
10	7.0		27	33.15	...		11	11.2	M
14	7.5		27	33.52	...		11	9.3	M
313 <i>Anon.</i>									
Mar. 11	8.0	13	28	42.10	...	144	39	11.6	M
13	8.0		28	41.92	...		39	8.4	M
15	8.0		28	42.03	...		39	9.1	M
Apl. 28	8.0		28	42.29	...		39	9.3	R
29	8.0		28	42.03	...		39	8.3	R
314 <i>Anon.</i>									
May 8	8.0	13	28	59.69	...	153	31	2.8	M
12	8.0		28	59.59	...		31	1.9	M
27	8.0		28	59.72	...		31	2.4	M
June 21	8.0		28	59.62	5		30	59.6	R
315 <i>Taylor 6283.</i>									
Apl. 22	6.5	13	29	27.12	...	131	48	43.0	R
May 6	6.5		29	27.12	...		48	42.8	M
316 <i>Anon.</i>									
Mar. 10	8.0	13	32	39.56	...	147	19	37.3	M
May 16	...		32	39.78	...		19	35.5	M
30	7.5		32	39.53	...		19	35.5	M
317 <i>Anon.</i>									
June 26	9.5	13	33	42.65	...	151	34	20.1	R
27	9.5		33	42.60	3		34	20.4	R
28	9.5		33	42.79	...		34	20.2	R
29	9.5		33	42.51	3		34	20.5	R

Separate Results of Madras Meridian Circle Observations in 1882.

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329 <i>Anon.</i>						335 <i>93 Virginis τ</i>					
May 6	8.5	13 47 50.04	...	127 20 40.2	M	June 8	...	13 55 38.51	...	87 53 2.0	R
18	...	47 50.22	...	20 39.7	M	10	...	55 38.59	...	53 0.5	R
June 6	8.5	47 50.11	...	20 39.1	R	18	...	55 38.50	...	52 59.7	R
8	8.5	47 50.08	...	20 39.4	R	14	...	55 38.58	...	52 59.7	R
10	8.5	47 50.08	4	20 38.7	R	15	...	55 38.50	...	52 59.9	R
330 <i>Anon.</i>						16	...	55 38.58	...	53 0.5	R
May 8	8.0	13 48 39.72	...	125 15 3.0	M	19	...	55 38.48	...	53 1.5	R
11	8.0	48 39.98	...	15 3.8	M	20	...	55 38.44	...	53 2.4	R
12	8.0	48 39.98	...	15 4.4	M	21	...	55 38.57	...	53 2.3	R
26	...	48 40.28	...	15 2.1	M	22	...	55 38.50	...	53 2.0	R
June 5	8.0	48 39.88	...	15 1.2	R	336 <i>Anon.</i>					
331 <i>Stone 7649.</i>						Mar. 11	8.0	13 57 2.89	...	126 42 54.9	M
May 27	8.0	13 50 18.85	...	136 25 53.3	M	May 2	8.0	57 2.89	...	42 54.0	M
June 13	7.0	50 18.88	...	25 51.4	R	6	...	57 3.03	3	42 54.3	M
14	7.0	50 18.82	...	25 50.9	R	12	8.0	57 2.73	...	42 54.3	M
15	7.0	50 18.54	...	25 52.4	R	15	8.0	57 2.95	...	42 53.3	M
16	7.0	50 18.60	...	25 52.4	R	337 <i>Stone 7699.</i>					
332 <i>Stone 7663.</i>						May 8	7.0	13 57 4.94	...	126 41 45.1	M
Apl. 28	7.0	13 51 36.41	...	152 12 27.3	R	13	...	57 5.12	...	41 44.1	M
May 2	7.5	51 36.20	...	12 24.1	M	16	...	57 5.22	...	41 43.5	M
3	...	51 36.48	...	12 25.3	M	338 <i>Anon.</i>					
333 <i>Anon.</i>						May 27	8.5	13 57 17.55	...	134 43 15.0	M
Mar. 9	8.0	13 52 8.14	...	127 1 11.7	M	29	8.0	57 17.53	...	43 15.3	M
11	8.0	52 8.13	...	1 13.3	M	30	7.5	57 17.48	...	43 14.2	M
15	8.0	52 8.10	...	1 10.6	M	31	...	57 17.27	5	43 15.4	M
Apl. 27	8.0	52 8.01	...	1 12.6	R	June 24	8.0	57 17.85	...	43 11.5	R
May 1	8.0	52 8.18	...	1 8.4	M	339 <i>Anon.</i>					
334 <i>Taylor 6513.</i>						Apl. 27	8.0	13 57 20.71	...	151 21 59.1	R
Mar. 14	6.5	13 53 52.10	...	133 37 26.9	M	28	8.0	57 20.65	...	21 57.9	R
Apl. 29	6.5	53 51.94	...	37 26.9	R	May 17	8.0	57 20.88	...	22 0.2	M
May 4	6.5	53 52.04	...	37 26.6	M	23	8.0	57 20.79	...	22 0.0	M
5	...	53 51.94	...	37 26.6	M	24	...	57 20.61	...	21 57.1	M
9	...	53 51.96	...	37 27.3	M						

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340 <i>R. P. L. 108.</i>						344 <i>R Centauri, Var.</i>					
May 1	...	14 1 37.04	3	3 40 40.8	M	May 9	...	14 8 4.91	...	140 21 47.2	M
3	...	1 37.03	3	40 38.8	M	12	7.0	8 4.65	...	21 46.3	M
4	...	1 37.85	3	40 37.5	M	23	...	8 4.93	...	21 48.3	M
5	...	1 37.10	3	40 39.4	M	30	7.0	8 4.82	...	21 47.8	M
<i>R. P. L. 108.—s.p.</i>						June 6	7.0	8 4.81	...	21 44.8	R
Jan. 11	...	14 1 36.24	3	3 40 37.3	M	8	7.0	8 4.80	...	21 47.7	R
14	...	1 35.81	3	40 41.4	M	19	7.5	8 4.68	...	21 46.9	R
Dec. 4	...	1 36.92	3	40 37.7	M	20	7.5	8 4.74	4	21 46.5	R
5	...	1 37.54	3	40 38.9	M	21	7.0	8 4.74	...	21 47.5	R
7	...	1 37.33	2	40 34.7	M	345 <i>Taylor 6660.</i>					
8	...	1 38.14	3	40 37.9	M	Mar. 13	7.0	14 11 57.67	...	135 33 15.5	M
14	...	1 37.17	3	40 36.1	M	May 3	...	11 57.83	...	33 17.1	M
341 <i>Anon.</i>						4	7.0	11 57.87	...	33 16.6	M
Mar. 11	9.5	14 4 28.99	...	130 31 36.3	M	6	7.0	11 57.74	...	33 16.7	M
14	9.5	4 29.00	...	31 34.2	M	11	7.5	11 57.70	...	33 16.0	M
Apl. 29	9.5	4 28.76	...	31 34.2	R	346 <i>Anon.</i>					
June 5	10.0	4 28.93	4	31 32.8	R	Apl. 27	9.0	14 13 3.53	...	151 0 26.3	R
14	9.5	4 28.91	4	31 32.5	R	29	9.0	13 3.30	...	0 24.4	R
342 <i>Anon.</i>						May 8	9.0	13 3.34	...	0 25.0	M
Mar. 13	9.5	14 4 32.34	...	135 48 23.2	M	15	9.0	13 3.49	...	0 24.8	M
May 27	9.5	4 32.68	...	48 21.7	M	347 <i>Anon.</i>					
June 15	9.5	4 32.30	...	48 22.8	R	Mar. 14	8.5	14 13 24.50	...	141 46 43.4	M
16	9.5	4 32.38	...	48 22.4	R	Apl. 23	8.5	13 24.56	...	46 42.2	R
343 <i>Stone 7768.</i>						May 2	8.5	13 24.82	...	46 42.2	M
Apl. 27	7.7	14 6 27.45	...	151 21 52.4	R	5	8.0	13 24.63	...	46 41.2	M
28	7.5	6 27.52	...	21 51.5	R	18	...	13 24.63	5	46 45.2	M
May 2	7.5	6 27.35	...	21 50.1	M	348 <i>Stone 7826.</i>					
8	7.5	6 27.44	...	21 52.3	M	June 26	7.0	14 14 4.04	...	156 6 16.1	R
15	7.0	6 27.51	...	21 54.4	M	27	7.0	14 3.90	...	6 16.3	R
						28	7.0	14 4.10	...	6 16.7	R

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349 <i>Stone 7843.</i>						May 3	...	14 20 58.07	...	70 14 30.3	M
May 13	...	14 15 53.14	...	181 42 48.6	M	4	...	20 58.08	...	14 30.7	M
26	...	15 52.94	...	42 51.5	M	6	...	20 57.93	...	14 31.3	M
29	...	15 52.85	4	42 49.8	M	8	...	20 58.04	...	14 31.2	M
31	...	15 52.82	...	42 50.7	M	9	...	20 58.06	...	14 31.7	M
June 5	6.7	15 52.75	...	42 48.5	R	10	...	20 58.06	...	14 32.1	M
350 <i>Anon.</i>						11	...	20 58.07	...	14 31.4	M
May 12	9.5	14 15 59.25	...	131 45 49.8	M	12	...	20 58.13	...	14 30.9	M
27	9.5	15 59.45	...	45 49.0	M	13	...	20 58.07	...	14 31.0	M
June 14	9.5	15 59.05	5	45 50.1	R	15	...	20 58.03	...	14 31.2	M
16	9.5	15 59.15	4	45 49.0	R	16	...	20 57.99	...	14 31.2	M
21	9.5	15 59.49	4	45 52.3	R	355 <i>Anon.</i>					
351 <i>Stone 7847.</i>						Apl. 27	7.0	14 21 14.94	...	150 19 17.7	R
May 22	...	14 16 21.83	...	131 44 57.7	M	June 28	7.0	21 15.16	...	19 17.8	R
30	7.5	16 21.67	...	44 55.9	M	356 <i>Stone 7897.</i>					
June 8	7.0	16 21.80	...	44 56.1	R	June 29	7.5	14 23 4.07	5	129 56 56.1	R
10	7.0	16 21.87	4	44 55.3	R	357 <i>Anon.</i>					
13	7.0	16 21.72	...	44 53.6	R	May 5	7.5	14 24 57.74	..	148 17 52.9	M
352 <i>Stone 7876.</i>						18	...	24 57.71	...	17 56.0	M
Mar. 14	7.0	14 19 55.57	...	135 40 51.3	M	24	...	24 57.90	...	17 54.7	M
Apl. 23	7.0	19 55.09	...	40 51.7	R	31	...	24 57.80	...	17 54.0	M
May 17	...	19 55.46	...	40 52.4	M	June 8	7.5	24 57.73	...	17 53.2	R
June 10	...	19 55.56	5	40 49.9	R	358 <i>25 Bootis p</i>					
13	7.5	19 55.37	...	40 48.8	R	Mar. 14	...	14 26 44.61	...	59 6 37.5	M
14	7.5	19 55.47	...	40 48.5	R	Apl. 28	...	26 44.62	...	6 35.3	R
353 <i>Stone 7877.</i>						359 <i>Taylor 6793.</i>					
Mar. 13	...	14 20 0.93	...	135 40 8.8	M	May 15	7.5	14 27 41.33	...	126 41 9.3	M
June 16	7.5	20 0.96	...	40 9.2	R	17	...	27 41.32	...	41 9.7	M
21	7.5	20 1.21	...	40 8.9	R	22	...	27 41.25	...	41 9.2	M
24	7.5	20 1.18	...	40 9.5	R	June 5	7.0	27 41.35	6	41 7.1	R
354 <i>22 Bootis f.</i>						6	7.0	27 41.06	...	41 7.3	R
Apl. 29	...	14 20 58.14	...	70 14 30.4	R						
May 1	...	20 58.05	...	14 30.9	M						
2	...	20 58.00	...	14 30.6	M						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>	
360 <i>Anon.</i>										366 <i>Anon.</i>									
May 4	7.0	14	28	23.80	...	126	2	0.9	M	May 18	7.0	14	37	17.16	...	134	.9	48.1	M
6	7.0		28	23.80	...		2	1.8	M	22	...		37	17.22	...		9	48.4	M
8	7.0		28	23.87	...		2	1.2	M	23	...		37	17.22	...		9	47.8	M
9	...		28	23.84	...		2	1.9	M	June 5	7.0		37	17.28	...		9	44.6	R
11	7.5		28	23.73	...		2	1.7	M	6	7.0		37	17.13	...		9	45.0	R
12	7.5		28	23.67	...		2	0.6	M	367 <i>Anon.</i>									
361 <i>Anon.</i>										Apl. 27	9.5	14	37	40.98	...	132	14	22.1	R
Apl. 27	9.0	14	28	55.08	...	149	14	58.0	R	28	9.5		37	41.05	...		14	21.7	R
29	9.0		28	54.77	...		14	56.5	R	29	9.5		37	40.88	...		14	21.4	R
May 1	8.5		28	55.24	...		14	58.3	M	May 2	9.0		37	41.09	...		14	20.9	M
2	9.0		28	55.03	...		14	58.7	M	4	9.0		37	41.10	...		14	20.5	M
3	...		28	55.18	...		14	54.7	M	368 <i>Anon.</i>									
362 <i>Stone 7947.</i>										June 23	7.0	14	38	43.03	...	128	6	13.7	R
June 26	7.0	14	29	26.01	...	157	41	24.1	R	26	7.0		38	43.08	...		6	13.1	R
28	7.0		29	26.04	...		41	24.3	R	27	7.0		38	42.97	...		6	17.1	R
363 <i>Stone 7969.</i>										29	7.0		38	43.07	...		6	13.3	R
June 8	7.0	14	32	13.28	...	120	3	13.6	R	369 <i>36 Bootis ϵ^2, Mirac.</i>									
10	7.0		32	13.26	...		3	12.5	R	June 8	...	14	39	49.88	...	62	25	40.4	R
13	7.0		32	13.42	...		3	13.4	R	10	...		39	49.97	...		25	39.7	R
14	7.0		32	13.04	...		3	10.0	R	13	...		39	49.97	...		25	40.6	R
15	7.0		32	13.20	...		3	14.3	R	14	...		39	49.98	...		25	41.0	R
364 <i>Anon.</i>										15	...		39	50.01	...		25	41.6	R
May 12	...	14	35	23.35	...	151	25	27.7	M	16	...		39	49.94	...		25	39.1	R
17	...		35	23.35	...		25	31.8	M	17	...		39	49.95	...		25	39.1	R
31	...		35	23.63	G		25	30.4	M	19	...		39	49.89	...		25	40.6	R
June 28	...		35	23.53	...		25	29.6	R	20	...		39	50.11	...		25	39.6	R
365 <i>Taylor 6860.</i>										21	...		39	49.91	...		25	39.7	R
May 5	7.5	14	35	39.42	...	136	7	3.7	M	370 <i>Anon.</i>									
6	7.5		35	39.54	...		7	2.5	M	May 26	8.0	14	42	52.10	...	135	48	10.5	M
8	...		35	39.59	...		7	5.3	M	27	8.5		42	51.98	...		48	9.2	M
9	...		35	39.51	...		7	6.4	M	June 6	8.0		42	51.99	...		48	9.7	R
11	...		35	39.37	...		7	4.1	M	28	8.0		42	51.95	...		48	9.3	R
371 <i>Anon.</i>										371 <i>Anon.</i>									
										Apl. 27	9.0	14	46	10.50	...	150	2	8.4	R
										28	9.0		46	10.57	...		2	6.8	R
										29	9.0		46	10.38	...		2	5.5	R
										May 1	9.0		46	10.66	...		2	7.7	M
										2	8.5		46	10.38	...		2	5.4	M

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		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
372 <i>Stone 8098.</i>						379 <i>Stone 8154.</i>					
May 4	7.0	14 46 16.12	...	129 15 47.1	M	Apl. 28	7.5	14 51 35.80	...	149 20 18.3	R
6	7.0	46 16.88	...	15 48.4	M	29	7.0	51 34.89	...	20 17.3	R
11	7.0	46 16.22	...	15 49.7	M	May 8	...	51 35.10	...	20 19.1	M
13	...	46 16.26	...	15 48.8	M	20	...	51 35.09	6	20 19.0	M
17	...	46 15.98	...	15 48.6	M	26	...	51 35.18	...	20 17.0	M
373 <i>Anon.</i>						380 <i>R. P. L. 110.</i>					
June 23	7.5	14 47 1.70	...	131 33 40.1	R	May 1	...	14 53 4.09	2	3 33 47.6	M
27	7.5	47 1.52	...	33 41.9	R	2	...	53 3.86	3	33 40.4	M
374 <i>Stone 8107.</i>						4	...	53 5.23	3	33 45.5	M
May 5	7.0	14 47 3.18	...	128 51 44.7	M	6	...	53 5.37	3	33 46.1	M
12	7.0	47 3.29	...	51 46.4	M	9	...	53 4.78	3	33 48.2	M
15	7.0	47 3.41	...	51 46.6	M	10	...	53 5.12	3	33 47.0	M
25	...	47 3.24	...	51 46.9	M	22	...	53 4.27	3	33 48.9	M
30	7.0	47 3.40	...	51 45.8	M	23	...	53 3.60	3	33 49.9	M
375 <i>Stone 8109.</i>						26	...	53 3.63	3	33 45.0	M
May 9	...	14 47 7.96	...	128 49 31.7	M	<i>R. P. L. 110.—s.p.</i>					
22	...	47 8.01	...	49 31.9	M	Dec. 8	...	14 53 5.28	3	3 33 45.6	M
June 13	7.0	47 7.94	...	49 31.5	R	11	...	53 3.89	3	33 46.1	R
14	7.0	47 7.90	...	49 31.6	R	12	...	53 4.66	3	33 46.7	R
376 <i>Anon.</i>						13	...	53 4.53	3	33 45.9	R
June 29	7.5	14 48 6.24	...	126 40 48.1	R	14	...	53 5.72	3	33 47.3	M
377 <i>Taylor 6956.</i>						15	...	53 5.22	2	33 42.5	M
June 10	6.5	14 49 5.29	...	123 56 10.8	R	16	...	53 4.73	3	33 48.8	M
15	7.0	49 5.18	...	56 10.1	R	381 <i>Anon.</i>					
16	7.0	49 5.39	...	56 12.6	R	June 27	8.0	14 53 25.73	...	131 49 5.0	R
378 <i>7 Urs. Min. β, Var. 1, Kochab.</i>						28	8.0	53 25.73	...	49 5.3	R
June 20	...	14 51 3.68	...	15 21 44.7	R	382 <i>Anon.</i>					
21	...	51 3.68	...	21 44.6	R	May 30	7.5	14 53 54.95	...	181 21 17.1	M
24	...	51 3.59	...	21 43.4	R	June 6	7.5	53 54.87	...	21 15.6	R
26	...	51 3.68	4	21 43.9	R	15	7.5	53 54.80	...	21 15.5	R
						16	7.5	53 54.90	...	21 16.4	R
						23	7.5	53 54.83	...	21 15.2	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
383 <i>Anon.</i>										389 <i>Stone 8238.</i>									
Apl. 27	9.0	14	54	3.86	...	147	45	40.1	R	May 11	7.0	15	2	43.14	...	152	35	4.6	M
May 11	...		54	3.96	...		45	42.1	M	22	...		2	43.61	...		35	4.2	M
12	9.0		54	3.92	...		45	41.2	M	24	...		2	43.24	...		35	4.4	M
13	...		54	3.77	...		45	40.5	M	25	...		2	43.44	...		35	2.8	M
27	9.0		54	3.91	...		45	41.8	M	27	7.0		2	43.42	...		35	2.5	M
384 <i>Anon.</i>										390 <i>R. P. L. 111.</i>									
June 8	7.0	14	54	7.94	6	131	20	57.3	R	May 1	...	15	3	40.68	3	5	35	32.1	M
10	7.0		54	7.94	...		20	57.0	R	6	...		3	41.04	3		35	35.9	M
13	7.0		54	7.85	...		20	56.2	R	<i>R. P. L. 111.—s.p.</i>									
14	7.0		54	7.87	...		20	56.3	R	Dec. 12	...	15	3	41.07	3	5	35	34.2	R
19	7.0		54	8.03	...		20	57.6	R	391 <i>Anon.</i>									
385 <i>T Trianguli Australis, Var.</i>										Apl. 23	9.0	15	5	39.82	...	152	52	26.8	R
Apl. 29	7.0	14	58	46.09	5	158	15	53.7	R	29	9.0		5	39.47	...		52	25.1	R
May 8	7.0		58	46.30	...		15	57.5	M	May 4	9.0		5	39.62	...		52	26.8	M
12	7.5		58	46.05	...		15	53.5	M	31	...		5	39.81	...		52	24.2	M
29	...		58	46.42	4		15	55.9	M	June 28	9.0		5	39.53	...		52	25.6	R
386 <i>Taylor 7027.</i>										392 <i>27 Libræ β</i>									
June 14	7.0	14	58	49.25	...	125	48	17.7	R	June 17	...	15	10	39.48	...	98	56	48.6	R
16	7.0		58	49.24	...		48	17.9	R	19	...		10	39.46	...		56	46.8	R
27	7.0		58	49.35	4		48	17.4	R	20	...		10	39.38	...		56	46.6	R
28	7.0		58	49.06	...		48	18.2	R	21	...		10	39.43	...		56	47.5	R
387 <i>Anon.</i>										23	...		10	39.45	...		56	49.9	R
Apl. 28	9.0	14	58	52.60	...	131	34	57.9	R	24	...		10	39.46	...		56	46.4	R
388 <i>Anon.</i>										27	...		10	39.44	...		56	46.6	R
Apl. 27	9.0	15	0	39.34	...	126	5	51.2	R	28	...		10	39.39	...		56	48.5	R
May 13	...		0	39.36	...		5	50.8	M	29	...		10	39.56	...		56	46.9	R
15	9.0		0	39.46	5		5	50.0	M	July 21	...		10	39.38	...		56	47.9	R
17	...		0	39.47	5		5	53.0	M	393 <i>Stone 8318.</i>									
18	...		0	39.44	...		5	53.3	M	May 11	7.0	15	11	16.90	...	132	0	15.7	M
										12	7.0		11	17.04	...		0	14.8	M
										13	...		11	16.88	...		0	14.0	M
										18	...		11	16.79	...		0	14.6	M
										20	...		11	16.98	...		0	15.2	M

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
394 <i>Anon.</i>										399 <i>Anon.</i>									
Apl. 28	9.0	15	12	19.99	...	153	41	59.0	R	May 5	8.0	15	23	55.30	...	133	15	30.8	M
29	9.0		12	19.52	...		41	57.8	R	9	...		23	55.31	...		15	36.4	M
May 6	9.0		12	19.92	...		42	1.2	M	15	...		23	55.37	5		15	38.4	M
8	...		12	19.52	...		41	59.2	M	18	...		23	55.17	...		15	37.6	M
23	...		12	19.57	...		42	1.3	M	22	...		23	55.39	...		15	39.0	M
395 <i>Anon.</i>										400 <i>Anon.</i>									
May 5	8.5	15	12	52.11	...	129	24	5.6	M	May 11	7.5	15	26	53.52	...	133	25	12.2	M
9	...		12	52.08	...		24	7.8	M	23	...		26	53.34	...		25	12.2	M
22	...		12	52.28	...		24	7.9	M	26	7.5		26	53.63	...		25	13.0	M
25	...		12	52.05	...		24	8.3	M	29	...		26	53.61	...		25	15.1	M
26	8.5		12	52.09	...		24	7.9	M	30	7.0		26	53.50	...		25	13.1	M
396 <i>R. P. L. 114.</i>										401 <i>Anon.</i>									
May 1	...	15	15	43.13	3	2	18	55.8	M	Apl. 27	...	15	28	5.07	...	148	23	41.2	R
2	...		15	43.53	3		18	52.9	M	29	...		28	4.82	...		23	40.4	R
3	...		15	43.46	3		18	54.1	M	May 2	...		28	5.32	...		23	41.0	M
4	...		15	44.36	3		18	54.1	M	4	...		28	5.11	...		23	40.2	M
<i>R. P. L. 114.—s.p.</i>										402 <i>Anon.</i>									
Jan. 3	...	15	15	42.68	3	2	18	56.8	M	Apl. 28	9.3	15	29	22.42	...	155	16	22.3	R
Dec. 7	...		15	43.93	3		18	55.7	M	May 3	...		29	22.16	...		16	22.6	M
8	...		15	44.14	3		18	55.8	M	6	9.0		29	21.96	...		16	22.5	M
397 <i>Anon.</i>										403 <i>Anon.</i>									
Apl. 28	9.5	15	21	2.26	...	153	41	7.1	R	May 5	7.5	15	31	49.25	...	133	13	52.1	M
29	9.5		21	1.82	...		41	6.2	R	9	...		31	49.00	...		13	53.9	M
May 12	9.5		21	2.05	...		41	7.6	M	13	...		31	49.08	...		13	53.1	M
25	...		21	1.67	...		41	6.4	M	18	...		31	49.14	...		13	53.4	M
27	9.5		21	2.26	...		41	6.5	M	June 6	7.5		31	49.13	...		13	51.2	R
398 <i>Anon.</i>										404 <i>Stone 8520.</i>									
Apl. 27	9.0	15	21	5.00	...	151	16	22.7	R	May 11	7.0	15	34	8.43	...	149	54	31.9	M
May 6	9.0		21	4.94	...		16	21.2	M	22	...		34	8.71	...		54	29.8	M
8	9.0		21	4.95	...		16	20.9	M	25	6.5		34	8.49	...		54	30.2	M
11	9.0		21	5.06	...		16	21.6	M	26	6.5		34	8.61	...		54	31.4	M
13	...		21	5.01	...		16	19.5	M	31	...		34	8.68	...		54	31.2	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
405 <i>Stone 8549.</i>										410 <i>37 Serpentis ε</i>									
May 4	...	15	37	8·48	...	155	4	18·8	M	Apl. 29	...	15	44	55·90	...	85	9	58·2	R
9	...		37	8·57	...		4	15·1	M	May 1	...		44	56·07	...		9	58·9	M
23	...		37	8·47	...		4	15·2	M	2	...		44	56·14	...		9	58·1	M
27	...		37	8·42	5		4	16·2	M	3	...		44	56·00	...		9	57·6	M
30	...		37	8·44	...		4	14·6	M	12	...		44	56·05	...		9	59·3	M
406 <i>Anon.</i>										16	...		44	56·12	...		9	57·0	M
Apl. 20	9·3	15	37	25·81	...	155	8	33·7	R	17	...		44	56·05	...		9	58·4	M
May 8	9·5		37	25·75	...		8	35·6	M	18	...		44	56·04	...	10	0·1	M	
407 <i>24 Serpentis α</i>										20	...		44	55·97	...	10	0·9	M	
June 17	...	15	38	27·35	...	88	12	7·8	R	22	...		44	56·03	...		9	58·9	M
23	...		38	27·31	...		12	5·8	R	23	...		44	56·00	...	10	0·0	M	
24	...		38	27·32	...		12	6·9	R	24	...		44	56·00	...		9	56·1	M
27	...		38	27·32	...		12	7·2	R	25	...		44	56·03	...		9	59·5	M
28	...		38	27·22	...		12	6·7	R	26	...		44	56·10	...		9	59·9	M
29	...		38	27·26	...		12	7·7	R	27	...		44	56·15	...		9	59·3	M
July 17	...		38	27·44	...		12	6·3	R	29	...		44	56·10	...		9	59·8	M
19	...		38	27·31	...		12	6·8	R	30	...		44	56·02	...	10	0·4	M	
20	...		38	27·32	...		12	7·2	R	31	...		44	56·24	...		9	58·2	M
21	...		38	27·35	...		12	7·2	R	June 5	...		44	56·07	...		9	57·6	R
408 <i>Taylor 7350.</i>										6	...		44	56·06	...		9	57·1	R
May 11	7·0	15	42	0·44	...	135	2	19·1	M	411 <i>R. P. L. 115.</i>									
13	...		42	0·62	...		2	18·7	M	May 4	...	15	45	34·15	3	4	47	11·5	M
June 10	6·0		42	0·73	...		2	18·4	R	5	...		45	34·26	3		47	13·5	M
13	6·0		42	0·51	...		2	17·0	R	6	...		45	38·91	3		47	11·6	M
15	6·0		42	0·66	...		2	17·5	R	412 <i>Anon.</i>									
409 <i>Anon.</i>										<i>R. P. L. 115.—s.p.</i>									
May 8	9·0	15	44	21·28	...	134	47	27·3	M	Dec. 19	...	15	45	34·31	3	4	47	14·3	M
June 19	9·0		44	21·21	...		47	25·7	R	20	...		45	33·96	3		47	18·5	M
27	9·0		44	21·23	...		47	27·1	R	22	...		45	33·22	3		47	14·6	M
29	9·0		44	21·28	...		47	27·0	R	412 <i>Anon.</i>									
July 24	9·0		44	21·41	...		47	24·3	R	May 9	6·5	15	47	59·11	...	130	26	13·4	M
										June 10	6·5		47	59·25	...		26	12·0	R
										13	6·5		47	59·11	...		26	10·3	R
										15	6·5		47	59·05	...		26	12·5	R
										26	6·5		47	59·13	...		26	12·7	R

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413 <i>Taylor 7401.</i>						419 <i>Anon.</i>					
May 18	...	15 50 12.23	...	133 44 10.4	M	May 18	8.5	16 6 1.81	...	125 29 38.8	M
18	...	50 12.26	...	44 11.9	M	July 26	8.5	6 1.69	...	29 39.1	R
26	7.0	50 12.28	...	44 10.8	M	420 <i>Taylor 8432.</i>					
June 16	7.0	50 12.18	...	44 13.0	R	May 11	7.0	16 7 11.86	...	132 35 59.5	M
414 <i>Stone 8746.</i>						12	...	7 11.98	5	35 58.9	M
May 11	7.5	15 53 51.84	...	135 1 31.7	M	13	...	7 11.87	...	35 56.6	M
12	7.0	53 51.97	...	1 29.5	M	17	...	7 11.79	...	35 59.8	M
13	...	53 52.16	...	1 31.2	M	22	...	7 11.86	...	35 57.9	M
17	...	53 51.99	...	1 32.7	M	421 <i>Stone 8832.</i>					
18	...	53 51.98	...	1 31.2	M	May 30	7.0	16 7 52.72	...	135 5 22.0	M
415 <i>R. P. L. 116.</i>						June 8	7.0	7 52.57	...	5 22.2	R
May 26	...	16 0 59.25	3	4 21 40.2	M	13	7.0	7 52.53	...	5 20.4	R
29	...	0 59.27	3	21 38.7	M	422 <i>Anon.</i>					
30	...	0 59.28	3	21 41.8	M	May 26	8.0	16 8 10.34	...	135 14 47.3	M
416 <i>R. P. L. 117.</i>						423 <i>Stone 8853.</i>					
May 8	...	16 3 22.97	3	6 2 29.7	M	July 21	7.5	16 10 33.63	...	124 37 31.0	R
9	...	3 23.16	3	2 31.0	M	27	7.0	10 33.68	...	37 22.9	R
25	...	3 22.53	5	2 28.7	M	424 <i>Anon.</i>					
27	...	3 23.51	5	2 30.4	M	June 10	9.0	16 11 10.55	...	130 31 49.5	R
June 15	...	3 22.98	3	2 30.8	R	28	9.0	11 10.67	...	31 48.4	R
27	...	3 23.05	3	2 30.1	R	July 22	9.0	11 10.57	...	31 47.5	R
28	...	3 22.37	3	2 30.3	R	24	9.0	11 10.83	...	31 46.0	R
417 <i>Anon.</i>						26	9.0	11 10.59	...	31 46.3	R
June 5	7.0	16 4 10.66	...	125 17 44.9	R	425 <i>Stone 8892.</i>					
6	7.0	4 10.53	...	17 45.2	R	June 26	7.0	16 14 39.33	...	152 50 55.1	R
8	7.0	4 10.48	...	17 45.7	R	426 <i>Taylor 7597.</i>					
10	7.0	4 10.35	...	17 45.4	R	June 29	...	16 16 1.79	...	128 54 53.4	R
13	7.0	4 10.43	...	17 44.0	R	July 17	...	16 1.79	...	54 54.7	R
418 <i>Anon.</i>						19	...	16 1.80	...	54 55.8	R
June 26	7.0	16 4 57.15	...	133 46 3.3	R	21	...	16 1.95	...	54 54.3	R
July 24	7.0	4 57.48	...	46 3.3	R	27	...	16 1.86	...	54 55.1	R
27	7.0	4 57.32	...	46 4.2	R						

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Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No of Wires.	Mean Polar Distance 1882. " " "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No of Wires.	Mean Polar Distance 1882. " " "	Observer.
427 <i>20 Herculis γ</i>						431 <i>Anon.</i>					
May 15	...	16 16 42.85	...	70 34 8.6	M	May 25	7.0	16 22 28.12	...	127 42 42.7	M
17	...	16 42.87	...	34 9.0	M	26	...	22 28.13	...	42 42.2	M
18	...	16 42.90	...	34 9.8	M	27	7.5	22 28.17	...	42 42.4	M
20	...	16 42.90	...	34 9.4	M	July 22	7.0	22 28.13	...	42 42.6	R
22	...	16 42.86	...	34 8.1	M	24	7.0	22 28.23	...	42 41.5	R
23	...	16 42.88	...	34 7.2	M	432 <i>Anon.</i>					
25	...	16 42.78	...	34 10.4	M	May 30	8.0	16 23 28.41	...	136 25 11.7	M
26	...	16 42.75	...	34 8.8	M	433 <i>Anon.</i>					
27	...	16 42.68	...	34 8.7	M	June 13	7.5	16 23 34.77	...	128 44 35.4	R
29	...	16 42.82	...	34 8.8	M	15	7.5	23 34.69	...	44 34.8	R
30	...	16 42.84	...	34 8.7	M	July 26	7.5	23 34.71	...	44 35.0	R
31	...	16 42.70	...	34 8.1	M	434 <i>Stone 8976.</i>					
June 5	...	16 42.82	...	34 6.6	R	June 8	7.0	16 25 21.65	...	123 16 39.4	R
6	...	16 42.87	...	34 7.2	R	10	7.0	25 21.54	...	16 39.6	R
8	...	16 42.94	...	34 7.5	R	435 <i>Taylor 7680.</i>					
10	...	16 42.79	...	34 7.8	R	May 23	7.0	16 28 52.89	...	125 40 22.7	M
13	...	16 42.80	...	34 7.5	R	27	7.0	28 52.85	...	40 22.1	M
14	...	16 42.79	4	34 8.2	R	29	...	28 53.04	...	40 23.3	M
15	...	16 42.80	...	34 8.2	R	July 20	7.0	28 52.98	...	40 23.6	R
16	...	16 42.81	...	34 7.3	R	24	7.0	28 52.85	...	40 19.2	R
428 <i>Anon.</i>						436 <i>Anon.</i>					
July 24	8.5	16 18 2.13	...	130 57 10.6	R	May 18	9.5	16 28 58.73	5	125 32 30.5	M
429 <i>21 Coronæ Borealis ν²</i>						25	9.5	28 59.03	...	32 29.7	M
June 19	...	16 18 2.39	...	56 1 16.8	R	437 <i>Stone 9014.</i>					
20	...	18 2.30	...	1 16.4	R	July 26	7.0	16 30 29.36	...	128 54 41.3	R
23	...	18 2.22	...	1 14.8	R	27	7.0	30 29.40	...	54 42.7	R
430 <i>21 Scorpii α, Antares.</i>						Aug. 17	...	30 29.24	...	54 41.1	M
June 5	...	16 22 10.41	...	116 10 7.0	R	21	...	30 29.10	4	54 43.6	M
16	...	22 10.43	...	10 6.3	R						
24	...	22 10.44	...	10 6.4	R						
26	...	22 10.54	...	10 6.4	R						
27	...	22 10.50	...	10 6.2	R						
28	...	22 10.43	...	10 7.2	R						
29	...	22 10.31	...	10 6.1	R						

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438 13 Ophiuchi ζ						443 Anon.					
May 22	...	16 30 39.69	...	100 19 38.6	M	July 21	8.0	16 38 47.70	...	125 34 30.3	R
24	...	30 39.66	...	19 38.6	M	Aug. 8	...	38 47.67	...	34 29.5	M
26	...	30 39.73	...	19 37.9	M	444 Anon.					
31	...	30 39.74	...	19 37.2	M	May 23	...	16 41 11.36	...	126 18 14.7	M
June 5	...	30 39.67	...	19 35.5	R	445 Anon.					
6	...	30 39.63	...	19 35.5	R	June 10	7.0	16 41 33.75	...	132 53 46.8	R
18	...	30 39.77	...	19 36.1	R	13	7.0	41 33.55	...	53 45.2	R
15	...	30 39.68	...	19 35.9	R	July 22	7.0	41 33.79	...	53 47.4	R
19	...	30 39.75	...	19 36.1	R	Aug. 17	...	41 33.71	...	53 47.7	M
20	...	30 39.68	...	19 36.3	R	446 Anon.					
23	...	30 39.70	...	19 34.7	R	July 24	8.0	16 42 25.25	...	127 50 25.5	R
24	...	30 39.62	...	19 35.3	R	Aug. 21	8.0	42 25.31	...	50 23.4	M
439 Anon.						447 Taylor 7793.					
May 30	7.0	16 31 58.93	...	134 20 20.9	M	June 16	7.0	16 44 37.97	...	127 23 53.1	R
June 10	7.0	31 58.99	...	20 19.1	R	July 27	7.0	44 33.08	...	23 51.3	R
27	7.0	31 58.97	...	20 18.1	R	29	7.0	44 33.21	...	23 50.6	R
28	7.0	31 58.93	...	20 18.7	R	Aug. 18	7.0	44 33.12	...	23 50.0	M
July 22	7.0	31 58.93	...	20 19.9	R	448 Taylor 7821.					
440 Anon.						May 26	...	16 47 31.13	...	129 18 43.1	M
June 20	7.0	16 36 12.93	...	123 43 2.4	R	27	7.5	47 31.07	...	18 44.9	M
July 24	7.0	36 13.12	...	43 2.0	R	June 23	8.0	47 31.10	...	18 43.1	R
Aug. 18	7.0	36 12.91	...	43 4.2	M	449 Anon.					
21	...	36 13.20	5	43 4.0	M	May 25	...	16 48 56.87	...	132 12 51.0	M
23	...	36 13.16	...	43 3.7	M	June 16	...	48 56.67	...	12 50.7	R
441 Anon.						July 22	8.5	48 56.61	4	12 51.3	R
May 27	7.5	16 38 13.21	...	129 3 13.3	M	450 Anon.					
June 27	7.5	38 13.16	...	3 13.0	R	Aug. 15	...	16 50 8.16	...	124 13 7.4	M
28	7.5	38 13.11	...	3 15.1	R	21	...	50 8.08	...	18 7.9	M
July 27	7.5	38 13.30	...	3 12.5	R	24	...	50 8.05	...	13 9.2	M
442 Stone 9094.											
May 26	6.5	16 38 43.78	...	129 9 31.7	M						
30	6.5	38 43.71	...	9 31.3	M						
June 15	...	38 43.61	...	9 28.7	R						
23	6.0	38 43.72	...	9 28.3	R						
24	6.0	38 43.63	...	9 28.0	R						

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451 <i>Anon.</i>						457 <i>Stone 9348.</i>					
June 13	8.5	16 50 16.23	...	128 26 11.8	R	June 23	6.5	17 4 10.31	...	128 40 23.4	R
452 <i>Stone 9263.</i>						24	6.5	4 10.18	...	40 28.0	R
June 23	7.0	16 55 11.88	...	129 54 51.5	R	Aug. 8	...	4 10.11	...	40 25.3	M
26	7.0	55 11.72	...	54 50.3	R	15	...	4 10.09	...	40 27.0	M
July 27	7.0	55 11.88	...	54 53.1	R	17	...	4 10.33	...	40 26.4	M
29	7.0	55 11.92	...	54 52.9	R	458 <i>Anon.</i>					
Aug. 8	...	55 11.84	...	54 50.0	M	June 27	7.5	17 6 11.70	...	181 19 53.0	R
453 <i>Taylor 7899.</i>						Aug. 24	7.5	6 11.99	4	19 54.7	M
July 26	7.0	16 57 46.87	...	126 34 28.2	R	29	...	6 11.85	...	19 54.1	M
Aug. 15	...	57 46.41	...	34 25.7	M	459 <i>Stone 9389.</i>					
19	...	57 46.74	...	34 26.1	M	July 24	7.0	17 8 55.60	...	129 17 42.2	R
21	7.0	57 46.61	...	34 28.9	M	Aug. 19	...	8 55.78	...	17 43.0	M
23	...	57 46.43	...	34 29.0	M	21	7.0	8 55.57	...	17 42.3	M
454 <i>22 Ursæ Minoris e</i>						460 <i>Stone 9428.</i>					
May 25	...	16 58 7.75	5	7 46 18.8	M	July 27	7.0	17 12 12.67	...	155 34 58.3	R
Aug. 17	...	58 5.72	3	46 10.9	M	Aug. 29	...	12 12.63	...	34 56.8	M
<i>22 Ursæ Minoris e—s. p.</i>						30	...	12 12.67	5	34 59.3	M
Jan. 19	...	16 58 6.43	3	7 46 14.3	M	461 <i>Stone 9431.</i>					
23	...	58 6.33	3	46 14.9	M	June 23	7.5	17 12 39.29	...	127 53 43.3	R
28	...	58 6.31	3	46 14.1	M	Aug. 11	...	12 39.25	...	53 47.5	M
Dec. 23	...	58 6.40	3	46 12.1	M	15	...	12 39.07	...	53 43.9	M
455 <i>Anon.</i>						18	7.0	12 39.02	...	53 45.7	M
June 15	9.0	16 59 19.00	...	132 35 31.9	R	24	7.0	12 39.40	...	53 49.6	M
16	9.0	59 19.11	...	35 29.5	R	462 <i>Anon.</i>					
27	9.0	59 18.88	5	35 33.2	R	June 27	7.5	17 14 34.43	...	181 58 15.4	R
Aug. 24	9.0	59 19.18	...	35 33.1	M	463 <i>Stone 9448.</i>					
456 <i>R. P. L. 118.</i>						July 24	7.0	17 14 37.35	...	128 4 59.6	R
June 20	...	17 2 11.15	3	5 8 32.1	R						
July 24	...	2 11.88	3	8 30.0	R						
Aug. 11	...	2 12.73	3	8 28.4	M						
18	...	2 12.80	3	8 31.2	M						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
464 <i>49 Ophiuchi</i> σ																			
June 26	...	17	20	39.51	...	85	45	20.7	R	June 28	...	17	31	58.34	3	5	17	21.4	R
27	...	20	39.49	...	...	45	20.7	R		July 26	...	31	57.24	3	...	17	20.5	R	
28	...	20	39.72	...	...	45	21.4	R		Aug. 30	...	31	57.37	3	...	17	21.7	M	
July 17	...	20	39.60	...	...	45	21.7	R		471 <i>Brisbane</i> 6151.									
18	...	20	39.58	...	...	45	20.5	R		July 24	8.0	17	32	0.17	...	134	36	14.0	R
19	...	20	39.67	...	...	45	20.4	R		Aug. 22	8.0	32	0.00	...	...	36	16.1	M	
20	...	20	39.68	...	...	45	20.6	R		24	...	32	0.00	...	...	36	16.3	M	
21	...	20	39.61	...	...	45	20.4	R		472 <i>Lacaille</i> 7400.									
24	...	20	39.60	...	...	45	19.9	R		Aug. 29	7.0	17	35	58.28	5	135	59	10.9	M
27	...	20	39.61	...	...	45	21.3	R		473 <i>60 Ophiuchi</i> β									
Aug. 9	...	20	39.62	...	...	45	21.9	M		July 27	...	17	37	38.60	...	85	22	55.8	R
14	...	20	39.66	...	...	45	23.5	M		29	...	37	38.60	...	...	22	55.6	R	
15	...	20	39.69	...	...	45	21.8	M		Aug. 3	...	37	38.45	...	...	22	55.4	M	
17	...	20	39.62	...	...	45	21.2	M		8	...	37	38.56	...	...	22	55.7	M	
18	...	20	39.71	...	...	45	22.3	M		9	...	37	38.61	...	...	22	57.0	M	
19	...	20	39.63	...	...	45	22.3	M		11	...	37	38.62	...	...	22	57.2	M	
21	...	20	39.57	...	...	45	22.7	M		14	...	37	38.56	...	...	22	57.8	M	
465 <i>Lacaille</i> 7320.																			
Aug. 22	7.0	17	24	32.60	...	135	25	19.3	M	474 <i>Stone</i> 9699.									
466 <i>Lacaille</i> 7329.																			
Aug. 11	7.0	17	25	31.81	...	134	55	11.1	M	July 20	7.0	17	41	34.69	...	125	20	11.4	R
24	7.0	25	31.98	...	...	55	11.3	M		Aug. 21	7.0	41	34.69	...	...	20	12.0	M	
467 <i>Lacaille</i> 7346.																			
Aug. 17	7.5	17	28	3.02	...	134	48	0.3	M	22	...	41	34.67	...	...	20	11.0	M	
468 <i>Anon.</i>																			
June 27	7.0	17	28	3.29	...	134	29	9.7	R	24	...	41	34.73	...	...	20	11.7	M	
Aug. 15	...	28	3.18	...	...	29	6.4	M		29	...	41	34.67	...	...	20	11.5	M	
18	7.5	28	3.15	...	...	29	8.5	M		475 ϵ^2 <i>Scorpii</i> .									
29	...	28	3.55	...	...	29	9.4	M		June 28	6.5	17	41	55.81	...	130	3	2.2	R
469 <i>55 Ophiuchi</i> α																			
June 26	...	17	29	27.31	...	77	21	9.8	R	476 <i>Anon.</i>									
July 17	...	29	27.30	...	...	21	10.3	R		July 26	7.5	17	47	36.36	...	128	39	14.1	R
18	...	29	27.46	...	...	21	10.9	R		27	7.5	47	36.36	...	...	39	13.4	R	
19	...	29	27.32	21	11.2	R		Aug. 11	7.5	47	36.28	39	14.6	M	
20	...	29	27.33	21	11.7	R		21	7.5	47	36.32	39	10.9	M	
										24	...	47	36.18	39	11.6	M	

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
477 Stone 9776.										Aug. 19	...	18	1	45.38	...	80	27	7.4	M
July 18	...	17	49	59.42	...	125	59	23.1	R	24	...	1	45.26	...	27	7.7	M		
19	...		49	59.27	...		59	23.6	R	29	...	1	45.19	...	27	7.8	M		
20	...		49	59.29	...		59	23.2	R	30	...	1	45.25	...	27	8.9	M		
Aug. 14	...		49	59.55	...		59	23.7	M	31	...	1	45.27	...	27	6.9	M		
29	...		49	59.44	...		59	24.2	M	482 Anon.									
478 Anon.										Aug. 21	8.5	18	5	46.39	...	133	7	13.2	M
July 21	8.0	17	50	23.09	...	151	21	9.3	R	483 Stone 9922.									
Aug. 30	8.5		50	23.37	...		21	12.4	M	Sep. 18	...	18	5	40.31	...	133	10	57.0	R
479 Anon.										484 Anon.									
July 26	9.0	17	55	12.38	...	126	32	33.0	R	Aug. 30	8.5	18	9	0.91	...	131	16	21.2	M
27	9.0		55	12.40	...		32	31.8	R	485 Anon.									
Aug. 11	8.5		55	12.33	...		32	31.8	M	July 26	8.0	18	10	17.12	...	126	23	30.9	R
17	8.5		55	12.27	...		32	32.7	M	27	8.0		10	17.17	...	23	40.6	R	
18	8.5		55	12.11	...		32	33.1	M	Aug. 29	...		10	17.11	...	23	40.6	M	
480 Anon.										Sep. 9	...		10	17.24	...	23	39.5	M	
July 12	8.5	17	56	32.25	...	128	56	59.3	R	486 23 Ursæ Minoris δ									
Aug. 24	...		56	32.20	...		56	59.5	M	June 26	...	18	10	22.95	3	3	23	27.0	R
29	...		56	32.42	...		57	0.0	M	Aug. 18	...		10	24.21	3		23	26.2	M
30	...		56	32.17	5		57	0.4	M	31	...		10	23.34	3		23	26.9	M
481 72 Ophiuchi.										23 Ursæ Minoris δ—s.p.									
June 26	...	18	1	45.23	...	80	27	5.1	R	Feb. 1	...	18	10	23.12	3	3	23	27.0	R
July 12	...		1	45.23	...		27	6.4	R	2	...		10	23.14	3		23	29.5	R
18	...		1	45.35	...		27	6.1	R	487 24 Ursæ Minoris.									
22	...		1	45.19	...		27	6.7	R	Aug. 18	...	18	14	29.33	3	3	0	37.9	M
24	...		1	45.25	...		27	5.7	R	24 Ursæ Minoris.—s.p.									
26	...		1	45.15	...		27	7.2	R	Feb. 4	...	18	14	28.50	3	3	0	40.9	R
27	...		1	45.24	...		27	7.4	R	9	...		14	28.40	3		0	40.4	R
29	...		1	45.31	...		27	6.9	R	Mar. 17	...		14	25.99	3		0	39.0	M
Aug. 3	...		1	45.21	...		27	6.4	M	18	...		14	26.40	3		0	39.9	M
8	...		1	45.32	...		27	5.5	M										
9	...		1	45.16	...		27	5.8	M										
11	...		1	45.22	...		27	6.2	M										
14	...		1	45.17	...		27	7.7	M										
15	...		1	45.19	...		27	6.1	M										
17	...		1	45.26	...		27	5.9	M										
18	...		1	45.26	...		27	7.6	M										

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.
488 <i>58 Serpentis η</i>						493 <i>Lalande 34128.</i>					
July 22	...	18 15 12.14	...	92 55 43.3	R	Aug. 15	...	18 22 12.79	...	83 52 37.4	M
24	...	15 12.21	...	55 43.0	R	494 <i>Anon.</i>					
26	...	15 12.25	...	55 40.8	R	July 18	8.0	18 25 39.69	4	126 53 27.2	R
29	...	15 12.28	4	55 40.6	R	Aug. 9	...	25 39.68	...	53 26.9	M
Aug. 8	...	15 12.35	...	55 42.3	M	17	8.0	25 39.59	...	53 26.3	M
8	...	15 12.12	...	55 42.5	M	24	...	25 39.88	...	53 25.9	M
11	...	15 12.11	...	55 41.9	M	495 <i>Stone 10116.</i>					
15	...	15 12.24	...	55 43.5	M	Aug. 21	7.0	18 28 34.98	...	137 10 5.1	M
489 <i>Anon.</i>						Sep. 9	...	28 35.08	...	10 5.3	M
Aug. 21	7.0	18 15 37.98	...	138 50 56.0	M	16	7.0	28 35.10	...	10 5.1	R
490 <i>Anon.</i>						18	7.0	28 35.12	...	10 4.9	R
July 18	8.0	18 16 28.87	...	127 17 7.8	R	21	7.0	28 35.19	...	10 5.5	R
20	8.0	16 28.91	5	17 8.6	R	496 <i>Stone 10154.</i>					
Sep. 18	8.0	16 28.97	...	17 7.0	R	Aug. 24	...	18 32 7.87	...	134 16 37.7	M
20	8.0	16 29.04	...	17 7.4	R	Sep. 13	...	32 7.95	...	16 35.7	R
491 <i>Stone 10028.</i>						15	...	32 8.03	...	16 36.4	R
July 19	6.5	18 18 6.10	...	124 0 31.6	R	497 <i>3 Lyræ α, Vega.</i>					
27	6.0	18 6.19	...	0 29.7	R	July 29	...	18 32 56.48	...	51 19 29.7	R
Aug. 9	...	18 5.90	...	0 31.8	M	Aug. 22	...	32 56.33	...	19 31.6	M
17	7.0	18 5.89	...	0 31.7	M	23	...	32 56.56	...	19 30.6	M
19	...	18 6.17	...	0 31.0	M	31	...	32 56.45	...	19 29.8	M
492 <i>22 Sagittarii λ</i>						Sep. 2	...	32 56.43	...	19 28.8	R
July 12	...	18 20 41.35	...	115 29 3.3	R	498 <i>Stone 10175.</i>					
22	...	20 41.41	...	29 6.3	R	July 18	7.0	18 34 43.09	...	129 23 46.7	R
26	...	20 41.35	...	29 4.6	R	19	7.0	34 43.10	4	23 46.7	R
Aug. 21	...	20 41.40	...	29 4.3	M	Aug. 9	...	34 43.81	...	23 47.9	M
22	...	20 41.48	...	29 4.9	M	18	7.5	34 42.68	...	23 47.7	M
23	...	20 41.84	...	29 5.4	M	499 <i>Stone 10182.</i>					
24	...	20 41.26	...	29 5.3	M	July 26	7.0	18 36 8.87	...	126 49 52.4	R
29	...	20 41.34	...	29 7.1	M	Aug. 19	...	36 8.78	...	49 54.0	M
30	...	20 41.21	...	29 6.3	M	21	6.8	36 9.01	...	49 53.6	M
Sep. 2	...	20 41.25	...	29 4.3	R	Sep. 9	...	36 8.92	...	49 53.2	M
9	...	20 41.24	...	29 4.7	M	11	6.5	36 8.90	6	49 51.8	R
11	...	20 41.28	...	29 6.3	R						
18	...	20 41.31	...	29 5.0	R						
20	...	20 41.37	...	29 3.8	R						

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
500 <i>Taylor 8615.</i>										507 <i>ε Coronæ Australis.</i>									
July 27	...	18	39	29.68	...	130	31	49.6	R	July 19	...	18	50	45.99	...	127	15	34.9	R
Aug. 24	...	...	39	29.78	...	...	31	48.7	M										
29	...	...	39	29.62	...	...	31	49.1	M										
Sep. 18	...	...	39	29.76	...	...	31	47.2	R										
21	...	...	39	29.72	...	...	31	47.7	R										
501 <i>Stone 10216.</i>										508 <i>R. P. L. 131.—s.p.</i>									
July 19	7.0	18	40	6.82	...	129	43	46.2	R	Mar. 17	...	18	53	21.13	3	3	26	32.8	M
22	7.0	...	40	6.96	...	...	43	43.6	R	18	...	...	53	21.50	3	...	26	(39.1)	M
Sep. 13	7.0	...	40	6.97	...	...	43	43.2	R	22	...	...	53	21.57	3	...	26	30.4	M
15	7.0	...	40	6.95	...	...	43	43.8	R	23	...	...	53	21.36	3	...	26	39.7	M
16	7.0	...	40	6.99	...	...	43	43.8	R	25	...	...	53	21.75	3	...	26	36.5	M
502 <i>Anon.</i>										509 <i>Stone 10334.</i>									
July 18	8.5	18	43	5.80	...	127	22	53.6	R	July 27	7.0	18	53	47.97	...	132	4	28.7	R
Aug. 18	7.5	...	43	5.54	...	...	22	58.4	M	Aug. 9	...	...	53	47.85	...	...	4	30.0	M
Sep. 9	...	...	43	5.58	...	...	22	57.5	M	18	6.8	...	53	47.88	...	...	4	28.8	M
23	8.5	...	43	5.72	...	...	22	55.3	R	19	...	...	53	47.84	...	...	4	26.6	M
503 <i>Anon.</i>										510 <i>13 Aquilæ ε</i>									
July 27	8.0	18	46	25.11	...	130	43	26.2	R	Aug. 21	...	18	54	15.95	...	75	5	27.0	M
Aug. 19	...	...	46	25.11	...	...	43	27.4	M	22	...	...	54	16.01	...	...	5	26.8	M
Sep. 13	8.0	...	46	25.17	...	...	43	25.5	R	23	...	...	54	15.91	...	...	5	25.7	M
16	8.0	...	46	25.16	...	...	43	26.9	R	28	...	...	54	15.83	...	...	5	28.1	M
21	8.0	...	46	25.08	...	...	43	24.5	R	29	...	...	54	15.84	...	...	5	27.7	M
504 <i>Anon.</i>										30	...	...	54	15.93	...	...	5	28.8	M
Aug. 24	...	18	47	2.07	...	125	52	31.3	M	31	...	...	54	16.06	...	...	5	27.8	M
29	8.0	...	47	2.25	...	...	52	31.6	M	Sep. 2	...	...	54	16.02	...	...	5	25.9	R
Sep. 23	9.0	...	47	2.24	...	...	52	30.6	R	9	...	...	54	15.91	...	...	5	27.4	M
25	9.0	...	47	2.32	...	...	52	32.4	R	16	...	...	54	15.91	...	...	5	29.8	R
505 <i>Anon.</i>										511 <i>Stone 10354.</i>									
Aug. 21	8.0	18	47	3.61	...	126	39	42.2	M	Aug. 24	...	18	55	56.02	...	128	14	7.8	M
506 <i>Stone 10307.</i>										Sep. 13	...	...	55	55.81	...	...	14	9.1	R
July 18	7.0	18	50	40.52	...	124	22	10.6	R	18	...	...	55	56.12	...	...	14	10.2	R
22	7.0	...	50	40.44	...	...	22	11.3	R	21	...	...	55	55.87	4	...	14	10.4	R
26	7.0	...	50	40.54	...	...	22	11.2	R	23	...	...	55	55.95	...	...	14	9.7	R
Aug. 14	...	...	50	40.62	...	...	22	12.8	M	512 <i>Anon.</i>									
Sep. 25	7.0	...	50	40.71	...	...	22	11.2	R	July 22	...	18	58	53.41	...	127	58	37.1	R
										26	...	...	58	53.64	...	...	58	37.9	R
										27	...	...	58	53.65	...	...	58	37.6	R
										Aug. 18	...	...	58	53.21	...	...	58	38.7	M
										19	58	53.39	58	37.4	M

Separate Results of Madras Meridian Circle Observations in 1882.

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	h. m. s.	h. m. s.	o. ' "	o. ' "			h. m. s.	h. m. s.	o. ' "	o. ' "	
513 <i>β Coronæ Australis.</i>						520 <i>Anon.</i>					
June 19	...	19 1 54.85	...	129 31 35.5	R	Aug. 29	7.5	19 7 37.47	...	129 24 11.2	M
514 <i>Anon.</i>						Sep. 15	7.5	7 37.28	...	24 9.8	R
Aug. 22	8.0	19 3 16.80	...	136 20 6.1	M	18	7.5	7 37.40	5	24 8.7	R
28	...	3 16.60	...	20 3.6	M	521 <i>Anon.</i>					
30	8.0	3 16.66	...	20 8.2	M	Aug. 22	...	19 10 30.18	...	136 14 8.1	M
Sep. 13	8.0	3 16.79	...	20 4.2	R	28	...	10 29.91	...	14 7.6	M
15	8.0	3 16.73	...	20 4.4	R	30	7.0	10 30.20	...	14 9.0	M
515 <i>Anon.</i>						Sep. 18	7.0	10 30.10	...	14 7.9	R
Aug. 21	8.5	19 3 30.35	...	135 29 28.0	M	522 <i>Anon.</i>					
Sep. 18	8.0	3 30.45	...	29 24.5	R	July 26	8.5	19 16 11.45	...	126 9 54.5	R
19	8.5	3 30.47	4	29 24.6	R	Sep. 16	8.5	16 11.69	...	9 55.7	R
21	8.5	3 30.26	5	29 24.3	R	18	8.5	16 11.66	...	9 55.4	R
22	8.0	3 30.43	4	29 23.6	R	21	8.5	16 11.59	...	9 54.8	R
516 <i>Anon.</i>						23	8.5	16 11.66	...	9 54.3	R
Sep. 9	...	19 4 5.98	...	135 27 44.6	M	523 <i>Stone 10506.</i>					
Oct. 7	...	4 5.89	...	27 46.1	M	July 27	7.5	19 16 29.31	...	134 25 14.4	R
517 <i>Anon.</i>						Aug. 19	...	16 29.20	5	25 16.6	M
Aug. 18	8.5	19 4 58.91	...	133 10 51.4	M	24	...	16 29.41	...	25 16.8	M
24	...	4 59.05	...	10 51.6	M	29	...	16 29.33	...	25 15.7	M
Sep. 23	8.5	4 59.22	...	10 50.2	R	30	6.5	16 29.11	...	25 16.4	M
25	8.5	4 59.20	...	10 49.9	R	524 <i>Anon.</i>					
518 <i>Stone 10425.</i>						Sep. 25	9.0	19 17 2.72	...	130 4 43.2	R
July 26	7.0	19 5 4.15	...	128 52 31.8	R	Oct. 5	8.0	17 2.64	...	4 41.7	M
27	7.0	5 4.12	...	52 31.8	R	7	...	17 2.55	...	4 42.6	M
Aug. 9	...	5 3.98	...	52 32.6	M	525 <i>Stone 10513.</i>					
14	...	5 4.21	...	52 33.3	M	Aug. 21	6.5	19 18 2.12	...	136 48 37.6	M
15	...	5 3.84	...	52 33.0	M	22	6.7	18 2.23	...	48 35.8	M
519 <i>Stone 10432.</i>						28	...	18 2.14	...	48 35.2	M
Sep. 11	6.0	19 6 4.49	...	135 23 26.7	R	Sep. 20	6.5	18 2.08	...	48 35.3	R
16	6.0	6 4.57	...	23 27.7	R	22	7.0	18 2.03	...	48 33.9	R
Oct. 5	...	6 4.54	5	23 28.2	M						

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		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
526 <i>Stone 10542.</i>						532 <i>Stone 10622.</i>					
Aug. 30	7.0	19 23 30.41	...	132 40 31.9	M	Sep. 9	...	19 35 44.39	...	127 48 55.4	M
Sep. 9	...	23 30.53	...	40 27.9	M	16	...	35 44.50	...	48 54.9	R
13	7.0	23 30.63	...	40 30.0	R	18	...	35 44.50	...	48 54.8	R
16	7.0	23 30.51	...	40 29.3	R	19	...	35 44.57	...	48 54.7	R
18	7.0	23 30.57	...	40 28.8	R	22	...	35 44.53	...	48 53.1	R
527 <i>Stone 10546.</i>						533 <i>Anon.</i>					
July 26	8.0	19 23 58.41	...	126 12 17.6	R	Aug. 18	8.0	19 36 33.88	...	128 7 27.1	M
Aug. 11	...	23 58.23	4	12 16.3	M	24	...	36 34.28	...	7 23.2	M
22	7.0	23 58.46	...	12 17.1	M	29	...	36 34.21	...	7 23.9	M
24	...	23 58.38	...	12 18.6	M	30	8.0	36 34.05	...	7 25.0	M
528 <i>Anon.</i>						Sep. 23	8.0	36 34.05	...	7 23.4	R
Oct. 5	8.5	19 25 45.25	...	132 42 53.3	M	534 <i>R. P. L. 133.</i>					
7	..	25 45.13	...	42 54.7	M	Sep. 21	..	19 38 1.08	3	4 9 27.2	R
529 <i>Stone 10561.</i>						Oct. 5	...	38 0.96	3	9 26.5	M
Aug. 29	6.0	19 26 2.75	..	130 17 13.0	M	<i>R. P. L. 133.—s.p.</i>					
Sep. 15	6.0	26 2.66	...	17 9.8	R	Apl. 1	...	19 38 1.10	4	4 9 27.0	R
19	6.0	26 2.94	...	17 11.1	R	4	...	38 0.36	3	9 28.8	R
20	6.0	26 3.01	...	17 11.2	R	6	...	38 0.28	3	9 29.5	R
21	6.0	26 3.01	...	17 10.7	R	7	...	38 1.02	2	9 29.4	R
530 <i>52 Sagittarii h².</i>						535 <i>Anon.</i>					
Aug. 15	...	19 29 31.39	...	115 8 33.6	M	Sep. 25	8.0	19 39 44.95	...	125 27 44.2	R
19	...	29 31.31	...	8 34.7	M	Oct. 7	8.0	39 44.84	...	27 44.3	M
24	...	29 31.39	...	8 33.9	M	536 <i>R. P. L. 134.</i>					
28	...	29 31.46	...	8 34.1	M	Aug. 21	...	19 39 49.85	3	4 9 39.0	M
Sep. 11	...	29 31.41	...	9 31.7	R	22	...	39 48.10	3	9 39.0	M
531 <i>Anon.</i>						23	...	39 48.22	3	9 37.6	M
July 26	7.0	19 30 7.75	...	129 1 11.4	R	23	...	39 48.84	3	9 40.0	M
Aug. 11	...	30 7.66	...	1 9.6	M	537 <i>Anon.</i>					
18	8.0	30 7.41	...	1 11.5	M	July 26	8.0	19 42 30.51	...	132 9 13.6	R
22	...	30 7.80	6	1 12.4	M	Aug. 11	7.5	42 30.33	...	9 18.7	M
30	8.0	30 7.60	...	1 12.4	M	24	...	42 30.36	...	9 13.0	M
						29	...	42 30.41	...	9 14.7	M
						30	8.0	42 30.42	...	9 15.0	M

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538 Taylor 9112.									
Sep. 9	...	19 43 49.50	...	180	10	17.4	M		
Oct. 18	...	43 49.52	...		10	21.5	M		
539 53 Aquilæ α, Altair.									
July 12	...	19 45 1.54	...	81	26	31.8	R		
27	...	45 1.48	...		26	33.8	R		
Sep. 11	...	45 1.59	...		26	32.2	R		
13	...	45 1.44	...		26	30.6	R		
15	...	45 1.56	...		26	31.6	R		
16	...	45 1.52	...		26	31.8	R		
18	...	45 1.49	...		26	30.6	R		
20	...	45 1.55	...		26	30.5	R		
22	...	45 1.53	...		26	31.1	R		
23	...	45 1.56	...		26	32.2	R		
540 Taylor 9131.									
Aug. 22	...	19 47 11.56	...	148	14	0.3	M		
Sep. 19	...	47 11.78	...		14	0.9	R		
25	...	47 11.73	...		13	58.7	R		
541 Anon.									
Aug. 30	8.5	19 48 5.39	6	132	0	3.6	M		
Oct. 7	8.5	48 5.54	4	131	59	59.5	M		
542 60 Aquilæ β									
Aug. 11	...	19 49 31.08	...	83	53	13.8	M		
24	...	49 31.05	...		53	12.6	M		
Sep. 9	...	49 31.03	...		53	14.5	M		
543 Anon.									
Aug. 29	7.5	19 50 14.92	...	132	59	43.6	M		
Sep. 16	7.5	50 14.88	4		59	43.9	R		
Oct. 18	7.5	50 14.74	...		59	44.7	M		
20	...	50 14.81	...		59	46.4	M		
544 Taylor 9171.									
Aug. 21	6.0	19 52 26.53	...	135	26	0.7	M		
Sep. 13	6.0	52 26.41	...		25	58.9	R		
15	6.0	52 26.38	...		25	59.4	R		
22	6.0	52 26.48	...		25	58.5	R		
23	6.0	52 26.58	...		25	58.9	R		
545 Stone 10758.									
July 12	...	19 54 36.43	...	131	44	35.9	R		
Aug. 9	...	54 36.42	...		44	36.7	M		
22	...	54 36.66	...		44	34.4	M		
30	...	54 36.35	5		44	33.9	M		
Sep. 21	...	54 36.53	...		44	33.6	R		
546 Anon.									
Oct. 5	9.3	19 58 25.84	4	143	10	43.1	M		
18	...	58 25.54	...		10	43.9	M		
547 Anon.									
Sep. 9	8.0	19 58 39.19	...	134	38	18.7	M		
25	8.0	58 39.39	...		38	18.3	R		
Oct. 7	8.0	58 39.29	...		38	17.6	M		
17	...	58 39.41	...		38	19.8	M		
20	...	58 39.13	...		38	19.9	M		
548 Anon.									
July 12	9.0	20 0 52.17	...	131	1	57.5	R		
Aug. 11	8.0	0 52.34	...		1	57.7	M		
24	...	0 52.35	...		1	58.6	M		
30	8.5	0 52.31	...		1	58.5	M		
Sep. 16	9.0	0 52.26	...		1	56.9	R		
549 65 Aquilæ θ									
Aug. 28	...	20 5 12.98	...	91	10	14.9	M		
29	...	5 13.08	...		10	14.6	M		
Sep. 13	...	5 13.01	...		10	13.3	R		
15	...	5 12.90	...		10	13.9	R		
18	...	5 12.92	...		10	12.9	R		
19	...	5 12.91	...		10	13.4	R		
20	...	5 12.86	...		10	13.2	R		

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Sep. 21	...	20 5 12.91	...	91 10 14.4	R	Apl. 5	...	20 16 25.41	2	5 40 42.0	R
22	...	5 12.93	...	10 13.7	R	6	...	16 24.43	2	40 42.2	R
23	...	5 12.87	...	10 13.7	R	7	...	16 25.66	3	40 41.5	R
25	...	5 12.91	...	10 13.2	R	8	...	16 25.68	3	40 40.5	R
Oct. 5	...	5 13.08	...	10 11.9	M						
550 <i>Stone 10833.</i>						555 <i>Anon.</i>					
Aug. 30	...	20 6 49.18	...	134 2 0.9	M	Aug. 23	7.5	20 19 2.73	...	135 8 34.1	M
Oct. 7	...	6 49.20	...	1 50.4	M	Sep. 9	7.5	19 3.04	...	8 35.7	M
24	...	6 49.40	...	2 0.3	M	13	7.0	19 2.81	...	8 33.7	R
						18	7.5	19 2.90	...	8 33.9	R
						Oct. 7	7.5	19 3.00	...	8 33.6	M
551 <i>Stone 10836.</i>						556 <i>Anon.</i>					
Sep. 9	...	20 8 14.36	...	131 50 12.6	M	Aug. 22	7.5	20 20 2.58	5	180 23 54.4	M
Oct. 17	...	8 14.47	...	50 12.4	M	Oct. 18	7.5	20 2.56	...	23 52.4	M
20	...	8 14.47	...	50 11.8	M						
21	...	8 14.10	5	50 12.2	M						
25	...	8 14.51	...	50 12.1	M						
552 <i>Stone 10858.</i>						557 <i>Anon.</i>					
Aug. 29	...	20 10 43.98	...	134 53 22.9	M	Aug. 30	8.5	20 21 25.17	...	133 19 43.1	M
Sep. 18	...	10 44.01	...	53 21.9	R	Oct. 17	...	21 25.32	...	10 44.8	M
						20	8.5	21 25.03	...	19 45.9	M
						25	...	21 25.22	4	19 44.7	M
553 <i>Anon.</i>						558 <i>R. P. L. 143.—s.p.</i>					
Aug. 30	8.5	20 13 21.07	...	135 21 22.4	M	Mar. 27	...	20 27 8.40	3	5 14 54.5	M
Oct. 7	8.5	13 21.15	...	21 20.7	M	Apl. 4	...	27 8.03	3	14 55.0	R
20	...	13 20.90	...	21 23.3	M	7	...	27 8.13	3	14 54.6	R
						8	...	27 7.50	3	14 55.3	R
						10	...	27 8.20	3	14 51.6	R
						11	...	27 7.77	3	14 58.5	R
						15	...	27 8.05	3	14 54.1	R
554 <i>R. P. L. 138.</i>						559 <i>2 Delphini e</i>					
Aug. 28	...	20 16 26.46	3	5 40 41.9	M	Aug. 18	...	20 27 34.40	...	79 5 50.4	M
Sep. 23	...	16 26.24	3	40 40.6	R	21	...	27 34.81	...	5 50.0	M
Oct. 6	...	16 26.53	3	40 40.4	M	22	...	27 34.45	...	5 49.1	M
24	...	16 26.02	3	40 43.3	M	Sep. 13	...	27 34.47	...	5 47.7	R
25	...	16 26.09	3	40 42.9	M	15	...	27 34.48	...	5 49.0	R
						16	...	27 34.49	...	5 48.8	R
						19	...	27 34.45	...	5 48.2	R
						21	...	27 34.47	...	5 47.6	R
						22	...	27 34.48	...	5 47.1	R
<i>R. P. L. 138.—s.p.</i>											
Mar. 18	...	20 16 26.34	3	5 40 40.6	M						
29	...	16 26.73	3	40 45.4	M						
30	...	16 26.60	3	40 45.1	M						
31	...	16 26.01	3	40 45.7	M						
Apl. 1	...	16 25.75	3	40 41.3	R						
4	...	16 25.92	3	40 41.8	R						

Number and Date.	Magnitude.	Mean Right Ascension 1882.			No. of Wires.	Mean Polar Distance 1882.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
Sep. 28	...	20	27	34.48	...	79	5	47.4	R
Oct. 6	...		27	34.53	...		5	50.5	M
17	...		27	34.55	...		5	50.5	M
26	...		27	34.58	...		5	51.0	M
560 <i>Stone 10972.</i>									
Aug. 23	6.5	20	27	42.82	...	184	44	38.5	M
Sep. 9	6.5		27	42.56	...		44	31.9	M
18	6.7		27	42.93	...		44	31.6	R
25	6.7		27	42.95	...		44	32.8	R
Oct. 18	...		27	42.74	...		44	32.4	M
561 <i>Taylor 9519.</i>									
Aug. 22	...	20	33	30.36	...	182	32	58.9	M
Oct. 5	...		33	30.32	4		32	57.9	M
562 <i>Anon.</i>									
Aug. 23	8.0	20	35	1.89	...	131	16	44.8	M
Sep. 18	8.0		35	2.03	...		16	43.1	R
21	8.0		35	2.22	...		16	45.7	R
25	8.0		35	2.19	...		16	46.4	R
Oct. 17	8.5		35	2.18	...		16	47.1	M
563 <i>Anon.</i>									
Sep. 13	8.0	20	37	34.69	...	126	31	56.8	R
564 <i>Taylor 9570.</i>									
Oct. 7	7.0	20	38	47.37	...	136	32	46.4	M
20	7.0		38	47.37	...		32	49.4	M
24	7.0		38	47.39	...		32	50.3	M
25	7.0		38	47.49	...		32	48.9	M
26	...		38	47.43	...		32	50.3	M
565 <i>2 Aquarii ε</i>									
Aug. 30	...	20	41	17.25	...	99	55	38.6	M
Sep. 18	...		41	17.14	...		55	34.8	R
19	...		41	17.20	...		55	35.5	R
21	...		41	17.26	...		55	36.3	R
25	...		41	17.28	...		55	35.8	R
566 <i>Anon.</i>									
Aug. 22	7.5	20	41	40.17	...	132	8	40.2	M
28	...		41	39.91	...		8	48.4	M
Sep. 9	...		41	40.13	...		8	45.6	M
Oct. 17	8.0		41	40.01	...		8	51.2	M
567 <i>Stone 11081.</i>									
Sep. 13	...	20	43	55.79	...	131	20	41.4	R
23	...		43	55.71	...		20	41.7	R
Oct. 24	...		43	55.82	...		20	43.8	M
25	...		43	55.57	...		20	42.7	M
568 <i>Anon.</i>									
Aug. 23	8.0	20	45	18.32	...	135	45	38.3	M
Oct. 20	8.0		45	18.26	...		45	39.6	M
569 <i>Taylor 9666.</i>									
Aug. 30	7.0	20	49	51.10	...	134	33	1.2	M
Sep. 9	6.5		49	50.88	...		32	59.3	M
11	6.0		49	51.19	...		32	59.4	R
13	6.0		49	51.01	5		32	58.1	R
23	6.0		49	51.05	...		32	58.2	R
570 <i>76 Draconis.</i>									
Sep. 16	...	20	51	2.54	5	7	54	25.1	R
76 Draconis—s.p.									
Mar. 18	...	20	51	2.84	3	7	54	26.1	M
Apr. 1	...		51	1.84	3		54	23.9	R
5	...		51	2.78	2		54	24.7	R
6	...		51	2.93	3		54	24.8	R
8	...		51	3.12	7		54	24.8	R

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882. h. m. s.	No. of Wires.	Mean Polar Distance 1882. ° ' "	Observer.
571 <i>Anon.</i>						578 <i>Anon.</i>					
Sep. 25	8.0	20 52 28.94	...	129 10 46.2	R	Sep. 11	8.5	21 4 10.10	...	128 26 21.3	R
Oct. 18	...	52 28.74	...	10 46.5	M	20	8.5	4 10.19	...	26 21.3	R
24	8.0	52 28.88	...	10 49.5	M	21	8.5	4 10.17	...	26 21.0	R
572 <i>Stone 11150.</i>						Oct. 17	...	4 10.21	6	26 22.6	M
Sep. 26	...	20 53 30.56	5	129 11 42.8	R	18	8.5	4 10.09	...	26 20.1	M
Oct. 20	...	53 30.48	...	11 45.8	M	579 <i>64 Cygni ζ</i>					
25	...	53 30.62	...	11 45.0	M	Sep. 16	...	21 7 54.79	...	60 15 23.6	R
26	...	53 30.65	...	11 45.9	M	23	...	7 54.88	...	15 21.7	R
573 <i>Anon.</i>						25	...	7 54.75	...	15 23.0	R
Aug. 30	8.0	20 56 40.25	6	127 59 36.6	M	26	...	7 54.68	...	15 23.3	R
Sep. 11	8.0	56 40.48	...	59 35.6	R	580 <i>Stone 11285.</i>					
20	8.0	56 40.25	...	59 38.9	R	Sep. 9	6.0	21 10 20.44	...	129 19 20.3	M
21	8.0	56 40.24	...	59 37.2	R	11	6.5	10 20.69	...	19 20.5	R
28	8.0	56 40.26	...	59 35.0	R	13	6.7	10 20.54	...	19 19.8	R
574 <i>Stone 11186.</i>						20	6.5	10 20.47	...	19 18.7	R
Oct. 17	7.0	20 57 40.27	...	127 41 46.1	M	21	6.5	10 20.47	...	19 19.7	R
18	7.0	57 40.39	6	41 45.6	M	581 <i>5 Cephei α, Alderamin.</i>					
Nov. 2	7.0	57 39.96	...	41 44.0	R	Nov. 3	...	21 15 45.21	...	27 54 49.8	R
575 <i>η Microscopii.</i>						582 <i>Anon.</i>					
Sep. 9	6.0	20 58 44.48	...	181 51 18.4	M	Sep. 13	7.0	21 16 35.69	...	130 31 58.8	R
576 <i>23 Capricorni θ</i>						23	7.0	16 35.68	...	31 58.6	R
Aug. 23	...	20 59 18.68	...	107 42 4.1	M	Oct. 5	7.0	16 35.46	...	31 58.7	M
Sep. 13	...	59 18.77	...	42 1.8	R	6	...	16 35.57	...	31 59.9	M
26	...	59 18.73	...	42 8.0	R	17	...	16 35.64	...	32 0.8	M
Oct. 7	...	59 18.95	...	42 2.5	M	583 <i>Anon.</i>					
20	...	59 18.69	...	42 7.1	M	Sep. 25	9.0	21 18 43.91	...	152 36 35.9	R
21	...	59 18.64	...	42 5.9	M	Nov. 6	8.0	18 44.01	...	36 37.0	R
24	...	59 18.76	...	42 5.8	M	7	8.0	18 44.15	...	36 36.1	R
25	...	59 18.80	...	42 6.8	M	8	8.0	18 44.08	...	36 36.4	R
26	...	59 18.77	...	42 6.3	M	577 <i>Anon.</i>					
Nov. 3	...	59 18.74	...	42 3.8	R	Sep. 25	8.0	21 0 8.69	...	150 59 54.0	R

Separate Results of Madras Meridian Circle Observations in 1882.

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584 <i>Anon.</i>						588 <i>Stone 11434.</i>					
Sep. 11	7.5	21 19 17.79	...	132 34 58.9	R	Nov. 10	7.0	21 32 21.91	...	133 39 49.8	R
21	7.5	19 17.69	...	34 56.2	R	11	6.5	32 22.03	...	39 50.2	R
26	7.5	19 17.67	...	34 57.9	R	13	6.5	32 21.96	...	39 50.1	R
Nov. 2	7.5	19 17.45	...	34 56.5	R	589 <i>Stone 11470.</i>					
8	7.5	19 17.40	...	34 55.0	R	Nov. 11	7.0	21 37 42.65	...	128 58 54.8	R
585 <i>Stone 11371.</i>						13	7.0	37 42.71	...	58 53.1	R
Sep. 13	7.0	21 22 10.16	...	128 35 54.6	R	590 <i>Anon.</i>					
20	7.0	22 10.33	...	35 55.3	R	Sep. 23	9.0	21 38 9.32	...	148 12 56.8	R
Oct. 5	7.0	22 10.15	...	35 54.8	M	25	9.0	38 9.38	...	12 56.0	R
17	7.0	22 10.30	...	35 56.5	M	Oct. 5	9.0	38 9.33	...	12 57.9	M
26	...	22 10.21	...	35 56.9	M	7	...	38 9.29	...	12 56.4	M
586 <i>R. P. L. 149.</i>						17	...	38 9.53	...	13 0.8	M
Oct. 18	...	21 22 58.36	3	3 27 16.2	M	591 <i>Anon.</i>					
24	...	22 56.57	3	27 15.5	M	Sep. 11	8.5	21 39 0.21	...	133 28 47.8	R
25	...	22 55.87	3	27 13.4	M	13	8.5	39 0.20	...	28 47.1	R
Nov. 6	...	22 55.49	3	27 15.2	R	18	8.5	39 0.15	...	28 49.5	R
7	...	22 56.20	3	27 14.3	R	20	8.5	39 0.31	...	28 47.9	R
8	...	22 56.46	3	27 14.4	R	21	8.5	39 0.39	...	28 47.8	R
9	...	22 56.53	2	27 14.7	R	592 <i>Anon.</i>					
11	...	22 56.60	3	27 14.4	R	Sep. 26	7.0	21 39 41.25	...	126 15 1.8	R
<i>R. P. L. 149.—s.p.</i>						Oct. 6	...	39 41.22	...	15 3.7	M
Mar. 21	...	21 22 57.57	3	3 27 15.3	M	18	7.5	39 41.26	...	15 2.6	M
24	...	22 57.27	3	27 14.7	M	26	...	39 41.15	...	15 4.6	M
28	...	22 58.50	3	27 14.5	M	593 <i>Anon.</i>					
29	...	22 57.43	3	27 15.3	M	Nov. 1	7.0	21 40 40.69	...	130 47 24.5	R
30	...	22 56.73	3	27 16.0	M	2	7.0	40 40.78	...	47 24.2	R
31	...	22 56.51	3	27 15.3	M	8	7.5	40 40.94	...	47 24.6	R
Apl. 1	...	22 56.52	3	27 14.4	R	9	7.5	40 40.84	...	47 24.9	R
3	...	22 55.71	3	27 12.8	R	10	7.5	40 40.84	...	47 25.0	R
4	...	22 56.28	3	27 17.0	R	594 <i>γ Gruis.</i>					
5	...	22 56.25	3	27 14.9	R	Nov. 9	...	21 46 46.94	4	127 55 8.5	R
587 <i>Anon.</i>						10	...	46 46.78	...	55 8.3	R
Sep. 20	7.5	21 28 57.95	...	134 22 26.5	R	11	...	46 46.71	...	55 8.5	R
21	7.5	28 58.02	...	22 26.3	R	13	...	46 46.80	...	55 7.7	R
23	7.5	28 57.88	...	22 25.4	R						
25	7.5	28 57.94	...	22 25.3	R						
26	7.5	28 57.79	...	22 26.8	R						

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608 <i>a Tucanæ.</i>						613 <i>R. P. L. 151.</i>					
Nov. 9	...	22 10 24.24	...	150 50 51.7	R	Oct. 4	...	22 22 56.28	3	4 22 19.4	M
10	...	10 24.13	...	50 51.3	R	16	...	22 56.39	3	22 17.1	M
11	...	10 24.24	...	50 52.5	R	18	...	22 56.33	3	22 20.0	M
609 <i>48 Aquarii γ</i>						614 <i>Anon.</i>					
Sep. 9	...	22 15 33.63	...	91 58 51.6	M	Sep. 18	7.0	22 26 41.47	...	126 2 50.4	R
11	...	15 33.55	...	58 52.1	R	25	7.0	26 41.46	4	2 50.0	R
20	...	15 33.54	...	58 52.4	R	26	7.0	26 41.42	...	2 50.7	R
21	...	15 33.64	...	58 52.6	R	Oct. 6	...	26 41.36	...	2 50.6	M
25	...	15 33.58	...	58 53.5	R	17	7.5	26 41.48	...	2 52.1	M
26	...	15 33.68	...	58 52.8	R	615 <i>R. P. L. 153—s.p.</i>					
Oct. 4	...	15 33.58	...	58 53.3	M	Feb. 14	...	22 27 1.16	2	2 31 5.3	R
6	...	15 33.64	...	58 50.9	M	Mar. 21	...	27 0.96	3	31 8.3	M
7	...	15 33.65	...	58 52.9	M	22	...	27 3.67	3	31 9.7	M
13	...	15 33.66	...	58 52.9	M	23	...	27 1.80	3	31 10.9	M
16	...	15 33.46	...	58 53.4	M	25	...	27 4.17	3	31 6.1	M
18	...	15 33.71	...	58 52.4	M	28	...	27 0.36	3	31 10.1	M
20	...	15 33.65	...	58 55.5	M	30	...	27 1.28	3	31 9.2	M
21	...	15 33.70	...	58 53.9	M	616 <i>R. P. L. 152.</i>					
24	...	15 33.68	...	58 56.1	M	Oct. 5	...	22 28 11.61	3	5 32 25.8	M
26	...	15 33.42	...	58 56.9	M	7	...	28 11.80	3	32 26.0	M
Nov. 1	...	15 33.60	...	58 53.5	R	16	...	28 10.85	3	32 25.6	M
3	...	15 33.59	...	58 55.4	R	18	...	28 10.46	3	32 27.3	M
6	...	15 33.62	...	58 52.5	R	20	...	28 11.07	3	32 24.9	M
610 <i>Anon.</i>						24	...	28 11.69	3	32 27.4	M
Sep. 18	8.0	22 19 5.97	...	130 43 9.0	R	25	...	28 11.13	3	32 28.2	M
Oct. 5	8.0	19 5.96	...	43 6.3	M	Nov. 1	...	28 11.72	3	32 28.0	R
17	8.0	19 6.04	...	43 8.3	M	3	...	28 11.53	3	32 28.0	R
Nov. 7	8.0	19 5.84	...	43 7.1	R	6	...	28 10.67	3	32 27.9	R
8	8.0	19 5.75	...	43 10.8	R	<i>R. P. L. 152.—s.p.</i>					
611 <i>R. P. L. 150.</i>						Mar. 29	...	22 28 13.21	3	5 32 26.2	M
Sep. 21	...	22 22 31.17	3	4 29 11.3	R	31	...	28 12.41	3	32 29.0	M
612 <i>55 Aquarii ζ¹</i>						Apl. 1	...	28 11.49	3	32 27.9	R
Nov. 10	...	22 22 45.14	...	90 37 23.0	R	3	...	28 11.46	3	32 26.3	R
11	...	22 45.19	...	37 23.3	R	4	...	28 11.13	3	32 27.5	R
13	...	22 45.36	...	37 23.4	R	5	...	28 10.53	3	32 27.0	R
17	...	22 45.17	...	37 23.4	R	7	...	28 11.42	3	32 26.6	R
						8	...	28 10.88	3	32 28.2	R
						10	...	28 11.83	3	32 26.5	R
						11	...	28 11.66	3	32 29.0	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
617 <i>Anon.</i>										623 <i>Anon.</i>									
Sep. 23	7.0	22	28	12.08	...	150	28	15.5	R	Oct. 17	...	22	40	59.07	...	132	10	23.5	M
Oct. 13	...		28	13.07	...		28	13.5	M	18	...		40	58.93	...		10	23.0	M
Nov. 7	7.0		28	12.32	...		28	17.6	R	24	...		40	58.97	...		10	24.1	M
8	7.0		28	12.29	...		28	18.0	R	26	...		40	59.16	...		10	25.6	M
9	7.0		28	12.37	...		28	18.3	R	Nov. 6	...		40	59.07	...		10	23.9	R
618 <i>T Aquarii, Var. 3.</i>										624 <i>Anon.—2nd Star.</i>									
Nov. 17	10.5	22	29	41.10	...	98	13	4.9	R	Sep. 26	7.5	22	45	44.47	...	133	24	49.3	R
18	10.5		29	41.31	4		13	4.0	R	Oct. 7	7.5		45	44.67	...		24	48.0	M
619 <i>Anon.</i>										Nov. 9	7.5		45	44.50	...		24	49.4	R
Sep. 21	8.0	22	35	12.89	...	152	40	57.3	R	10	7.5		45	44.50	...		24	49.4	R
Oct. 5	8.5		35	12.24	...		40	55.2	M	11	7.5		45	44.52	...		24	49.7	R
Nov. 8	8.0		35	12.24	...		40	56.7	R	625 <i>73 Aquarii λ</i>									
10	8.0		35	12.27	...		40	56.8	R	Oct. 4	...	22	46	27.40	...	98	12	24.9	M
11	8.0		35	12.14	...		40	58.1	R	5	...		46	27.40	...		12	25.2	M
620 <i>Anon.</i>										13	...		46	27.31	...		12	28.0	M
Sep. 25	8.0	22	36	11.10	...	148	1	49.0	R	16	...		46	27.42	...		12	27.5	M
Oct. 18	8.0		36	11.17	...		1	47.1	M	17	...		46	27.29	...		12	29.3	M
24	...		36	11.35	...		1	49.7	M	21	...		46	27.34	...		12	28.6	M
Nov. 7	8.0		36	11.03	4		1	49.2	R	25	...		46	27.51	...		12	30.0	M
9	8.0		36	11.17	...		1	49.7	R	Nov. 1	...		46	27.26	...		12	25.9	R
621 <i>Anon.</i>										3	...		46	27.34	...		12	25.2	R
Sep. 26	7.0	22	36	27.93	...	130	37	30.2	R	6	...		46	27.39	...		12	26.5	R
Oct. 4	7.5		36	28.06	...		37	31.3	M	7	...		46	27.33	...		12	25.4	R
6	...		36	27.91	...		37	31.3	M	8	...		46	27.33	...		12	25.6	R
7	...		36	27.95	...		37	29.9	M	626 <i>24 Piscis Australis α, Fomalhaut.</i>									
25	7.0		36	27.99	...		37	33.1	M	Oct. 6	...	22	51	7.58	...	120	14	50.9	M
622 <i>44 Pegasi η</i>										7	...		51	7.38	...		14	47.1	M
Nov. 13	...	22	37	28.14	...	60	23	43.5	R	24	...		51	7.64	...		14	51.7	M
14	...		37	28.14	...		23	42.7	R	25	...		51	7.54	...		14	52.7	M
18	...		37	28.00	...		23	43.3	R	26	...		51	7.67	...		14	54.1	M
										Nov. 1	...		51	7.53	...		14	49.5	R
										6	...		51	7.59	...		14	50.5	R
										7	...		51	7.55	...		14	49.7	R
										8	...		51	7.56	...		14	49.9	R
										9	...		51	7.55	...		14	50.1	R
										10	...		51	7.55	...		14	49.4	R
										11	...		51	7.57	...		14	49.5	R
										13	...		51	7.57	...		14	49.6	R

Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.
Nov. 14	...	22 51 7.55	...	120 14 50.1	R
17	...	51 7.51	...	14 48.5	R
18	...	51 7.63	...	14 49.7	R
Dec. 2	...	51 7.79	...	14 52.7	M
4	...	51 7.78	..	14 50.4	M
627 <i>Stone 12002.</i>					
Nov. 1	7.0	22 58 14.58	...	126 31 55.8	R
6	7.0	58 14.84	...	31 56.5	R
10	7.0	58 14.89	...	31 56.0	R
Dec. 4	7.5	58 14.63	...	31 56.9	M
628 <i>Anon.</i>					
Oct. 4	...	22 58 25.28	...	155 58 35.2	M
629 <i>Lacaille 9360.—2nd.</i>					
Oct. 26	...	22 59 3.35	...	183 42 55.5	M
630 <i>R. P. L. 155.</i>					
Oct. 18	...	23 24 18.53	3	4 13 55.0	M
20	...	24 19.34	3	13 56.4	M
24	...	24 19.23	3	13 56.8	M
Nov. 1	...	24 18.18	3	13 54.8	R
8	...	24 17.41	3	13 55.0	R
9	...	24 17.49	3	13 54.8	R
10	...	24 17.95	3	13 55.0	R
13	...	24 18.19	3	13 56.4	R
17	...	24 18.87	3	13 56.7	R
18	...	24 18.65	3	13 58.7	R
<i>R. P. L. 155.—s.p.</i>					
Apl. 3	...	23 24 17.65	3	4 13 56.8	R
5	...	24 17.53	3	13 59.1	R
8	...	24 17.72	3	13 58.8	R
10	...	24 17.36	3	13 56.1	R
11	...	24 17.53	3	13 55.5	R
15	...	24 17.46	3	13 57.7	R
17	...	24 17.93	3	13 58.1	R
18	...	24 17.93	3	13 56.8	R
19	...	24 17.82	3	13 56.2	R
21	...	24 17.28	3	13 57.4	R

Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.
631 <i>R. P. L. 158.—s.p.</i>					
Feb. 22	...	23 27 49.81	3	3 20 38.2	R
25	...	27 49.98	3	20 38.2	R
Mar. 6	...	27 49.92	3	20 37.7	M
15	...	27 50.55	3	20 39.6	M
30	...	27 49.74	3	20 40.5	M
31	...	27 49.48	3	20 38.6	M
Apl. 1	...	27 50.24	3	20 35.7	R
632 <i>35 Cephei γ</i>					
Oct. 16	...	23 34 30.87	5	13 1 34.5	M
17	...	34 30.79	...	1 36.7	M
18	...	34 30.77	8	1 36.0	M
24	...	34 30.50	...	1 36.2	M
25	...	34 30.47	...	1 36.0	M
Nov. 3	...	34 30.51	...	1 33.8	R
9	...	34 30.40	...	1 34.2	R
10	...	34 30.60	...	1 34.3	R
633 <i>δ Sculptoris.</i>					
Oct. 4	...	23 42 46.62	...	118 46 58.5	M
18	...	42 46.49	...	47 0.7	M
20	...	42 46.52	...	46 58.4	M
25	...	42 46.44	...	46 59.7	M
Nov. 1	...	42 46.75	...	46 58.4	R
7	...	42 46.64	...	46 57.7	R
8	...	42 46.62	...	46 57.8	R
9	...	42 46.66	...	46 58.8	R
10	...	42 46.58	...	46 58.4	R
11	...	42 46.62	...	46 58.7	R
13	...	42 46.63	...	46 59.0	R
14	...	42 46.63	...	47 0.1	R
17	...	42 46.57	...	46 58.3	R
18	...	42 46.63	...	46 59.5	R
Dec. 1	...	42 46.53	...	46 59.5	M
2	...	42 46.64	...	46 59.8	M
4	...	42 46.60	...	47 0.9	M
5	...	42 46.73	...	47 1.6	M

Separate Results of Madras Meridian Circle Observations in 1882.

Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1882.	No. of Wires.	Mean Polar Distance 1882.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
634 <i>Anon.</i>						R. P. L. 162.—s.p.					
Oct. 20	9.0	23 51 31.70	...	142 51 17.1	M	Apl. 1	...	23 53 50.39	3	3 57 2.0	R
						3	...	53 50.31	3	56 59.7	R
						4	...	53 58.62	3	57 2.3	R
						5	...	53 58.26	3	57 2.8	R
						6	...	53 58.37	3	57 3.1	R
						7	...	53 58.91	3	57 1.8	R
						8	...	53 58.36	3	57 2.8	R
						10	...	53 58.63	3	57 4.1	R
						11	...	53 58.55	3	57 3.2	R
						15	...	53 59.24	3	57 4.8	R
635 <i>W. B. E. XXIII. 1032.</i>						637 <i>W. B. E. XXIII. 1110.</i>					
Dec. 2	8.5	23 51 45.37	...	85 15 7.1	M	Nov. 9	9.0	23 55 33.06	...	85 36 7.1	R
5	...	51 45.16	...	15 8.7	M	11	9.0	55 32.90	...	36 6.9	R
7	...	51 45.43	...	15 7.7	M	13	9.0	55 32.90	...	36 7.6	R
11	9.0	51 45.50	...	15 9.0	R	17	9.0	55 32.98	...	36 6.6	R
12	9.0	51 45.54	...	15 8.0	R	Dec. 4	9.0	55 32.87	...	36 7.5	M
636 <i>R. P. L. 162.</i>						638 <i>Anon.</i>					
Oct. 16	...	23 53 58.86	2	3 57 2.9	M	Nov. 7	9.5	23 55 37.12	...	85 17 5.1	R
18	...	54 0.00	3	57 1.0	M	8	9.5	55 37.20	...	17 5.5	R
24	...	53 58.06	3	57 1.4	M	14	9.5	55 37.02	...	17 6.5	R
25	...	53 58.90	3	57 2.5	M	Dec. 8	9.5	55 37.00	...	17 6.9	M
Nov. 3	...	53 57.99	3	57 1.5	R						
Dec. 1	...	53 58.89	3	56 59.1	R						
13	...	53 58.02	3	57 3.8	R						
16	...	53 59.21	3	57 1.6	M						
18	...	53 59.42	3	57 1.8	M						
19	...	53 58.78	3	57 3.7	M						

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1882

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
1	21 Androm. α (<i>Alpherat</i>)..	2.1	...	0	2	17.35	61	33	39.2	8	0.89
2	88 Pegasi γ (<i>Algenib</i>) ...	3.0	...	0	7	9.61	75	28	20.9	4	0.86
3	8 Ceti :	3.6	...	0	13	24.85	99	28	42.0	7	0.89
4	... ..	8.0	1	0	19	37.22	148	55	14.0	1	0.85
5	... ..	8.0	5	0	20	39.06	149	26	56.7	5	0.90
6	R. P. L. 4	8.0	...	0	24	39.71	4	19	58.5	20	0.60
7	... ..	9.0	3	0	27	39.20	131	22	36.3	3	0.86
8	... ..	7.5	4	0	31	2.65	148	51	33.6	4	0.95
9	Taylor 181	6.4	...	0	34	14.23	135	26	45.6	4	0.93
10	... ..	8.0	5	0	34	30.24	128	13	43.7	5	0.85
11	Taylor 194... ..	7.0	...	0	36	19.77	133	46	20.9	5	0.88
12	24 Cassiopeiae η —1st	4.4	...	0	41	57.90	32	48	36.5	2	0.86
13	24 Cassiopeiae η —2nd		...	0	41	58.13	32	48	44.6	2	0.86
14	63 Piscium δ	4.6	...	0	42	33.56	83	3	26.9	7	0.92
15	... ..	8.0	5	0	49	50.82	128	9	35.5	5	0.85
16	R. P. L. 10	6.6	...	0	51	13.87	1	36	35.3	2	0.97
17	... ..	8.8	...	0	52	5.61	131	53	37.0	4	0.92
18	2 Ursæ Minoris	4.5	...	0	52	50.18	4	22	38.0	5	0.41
19	... ..	9.0	5	0	56	10.15	146	47	41.8	5	0.85
20	R. P. L. 14	6.2	...	0	56	29.77	3	29	0.8	14	0.63
21	43 Andromedæ β	2.2	...	1	3	7.52	55	0	20.6	9	0.95
22	... ..	8.5	5	1	4	50.15	134	42	17.5	5	0.90
23	... ..	9.0	3	1	9	1.46	145	52	6.3	4	0.91
24	... ..	8.0	3	1	10	4.95	124	39	18.0	3	0.92
25	... ..	7.0	1	1	13	5.04	130	43	32.5 15.8	1	0.94
26	R. P. L. 18	7.9	...	1	13	23.00	2	3	11.1	14	0.64
27	1 Ursæ Min. α (<i>Polaris</i>)...	2.2	...	1	15	23.78	1	19	12.6	3	0.36
28	45 Ceti θ^1	3.8	...	1	18	7.50	98	47	34.9	4	0.73
29	... ..	9.3	...	1	19	33.53	123	28	18.2	1	0.01
30	... ..	9.7	2	1	20	4.46	122	56	38.4	2	0.89
31	... ..	9.0	2	1	21	2.65	123	9	52.0	4	0.73
32	... ..	9.0	...	1	23	2.34	123	37	33.6	1	0.02
33	... ..	8.0	3	1	23	45.22	131	15	30.9	4	0.43
34	99 Piscium η	3.7	...	1	25	10.10	75	15	47.4	3	0.32
35	... ..	7.6	2	1	27	12.17	132	6	50.5	5	0.94

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	21 Andromedæ α ...	+ 3·0796	+ 0·0182	+ 0·010	- 20·053	+ 0·013	+ 0·16	3215
2	88 Pegasi γ ...	+ 3·0831	+ 0·0100	- 0·001	- 20·044	+ 0·022	+ 0·01	1
3	8 Ceti :	+ 3·0593	- 0·0023	- 0·003	- 20·020	+ 0·034	+ 0·03	14
4	... ..	+ 2·8827	- 0·0404	...	- 19·980	+ 0·044	...	...
5	... ..	+ 2·8686	- 0·0408	...	- 19·973	+ 0·046	...	...
6	R. P. L. 4 ...	+ 4·9672	+ 0·8779	...	- 19·936	+ 0·087	...	...
7	... ..	+ 2·9306	- 0·0203	...	- 19·903	+ 0·060	...	...
8	... ..	+ 2·7735	- 0·0360	...	- 19·871	+ 0·063	...	...
9	Taylor 181 ...	+ 2·8772	- 0·0223	...	- 19·830	+ 0·071	...	...
10	... ..	+ 2·9144	- 0·0169	...	- 19·828	+ 0·072	...	...
11	Taylor 194 ...	+ 2·8702	- 0·0206	...	- 19·803	+ 0·075	...	...
12	24 Cassiopeiæ η —1st.	+ 3·4408	+ 0·0606	+ 0·135	- 19·719	+ 0·099	+ 0·48	79
13	24 Cassiopeiæ η —2nd	+ 3·4409	+ 0·0606	+ 0·135	- 19·718	+ 0·099	+ 0·48	79
14	63 Piscium δ ...	+ 3·1023	+ 0·0079	+ 0·004	- 19·700	+ 0·091	+ 0·04	85
15	... ..	+ 2·8457	- 0·0149	...	- 19·582	+ 0·097	...	...
16	R. P. L. 10 ...	+ 13·6179	+ 8·1582	+ 0·061	- 19·557	+ 0·448	+ 0·03	Main
17	... ..	+ 2·8020	- 0·0167	...	- 19·538	+ 0·099	...	...
18	2 Ursæ Minoris	+ 7·0628	+ 1·3702	+ 0·068	- 19·524	+ 0·243	+ 0·01	92
19	... ..	+ 2·5766	- 0·0249	...	- 19·455	+ 0·099	...	...
20	R. P. L. 14 ...	+ 8·4318	+ 2·1391	+ 0·054	- 19·448	+ 0·308	+ 0·02	95
21	43 Andromedæ β ...	+ 3·3269	+ 0·0286	+ 0·014	- 19·298	+ 0·139	+ 0·08	140
22	... ..	+ 2·7030	- 0·0161	...	- 19·255	+ 0·118	...	...
23	... ..	+ 2·4873	- 0·0203	...	- 19·151	+ 0·115	...	...
24	... ..	+ 2·7941	- 0·0105	...	- 19·124	+ 0·130	...	...
25	... ..	+ 2·7115	- 0·0128	...	- 19·043	+ 0·131	...	...
26	R. P. L. 18 ...	+ 14·8101	+ 6·8364	...	- 19·035	+ 0·688	...	...
27	1 Ursæ Minoris α ...	+ 21·8338	+ 16·2032	+ 0·108	- 18·976	+ 1·038	+ 0·00	102
28	45 Ceti θ ¹ ...	+ 3·0032	+ 0·0018	- 0·007	- 18·900	+ 0·154	+ 0·20	184
29	... ..	+ 2·7716	- 0·0088	...	- 18·858	+ 0·145	...	...
30	... ..	+ 2·7758	- 0·0086	...	- 18·843	+ 0·146	...	...
31	... ..	+ 2·7698	- 0·0085	...	- 18·813	+ 0·147	...	...
32	... ..	+ 2·7572	- 0·0085	...	- 18·752	+ 0·151	...	...
33	... ..	+ 2·6532	- 0·0114	...	- 18·730	+ 0·146	...	...
34	99 Piscium η ...	+ 3·2000	+ 0·0141	- 0·000	- 18·685	+ 0·177	+ 0·00	203
35	... ..	+ 2·6285	- 0·0113	...	- 18·620	+ 0·150	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	... ..	7.8	3	1	31	21.09	150	15	37.9	5	0.96
37	α Eridani (<i>Achernar</i>) ...	1.0	...	1	33	19.04	147	50	14.8	5	0.89
38	... ..	7.0	1	1	33	25.11	138	32	8.9	1	0.99
39	110 Piscium \circ ...	4.4	...	1	39	9.76	81	26	13.0	19	0.66
40	... ..	8.3	...	1	44	23.72	134	49	44.1	5	0.93
41	55 Ceti ζ ...	3.9	...	1	45	38.19	100	55	8.1	5	0.94
42	45 Cassiopeiae ϵ ...	3.8	...	1	45	54.66	26	54	43.7	4	0.94
43	Stone 762 ...	7.0	1	1	50	49.17	126	49	25.0	2	0.02
44	... ..	7.6	2	1	52	12.17	128	4	22.9	3	0.96
45	... ..	7.7	5	1	54	33.04	135	19	1.9	5	0.93
46	... ..	9.0	2	1	55	44.06	87	41	34.5	3	0.01
47	Stone 815 ...	7.0	3	1	57	36.39	131	5	20.6	4	0.95
48	Stone 824 ...	7.0	...	1	59	38.17	134	4	26.5	2	0.97
49	13 Arietis α ...	2.0	...	2	0	31.36	67	5	46.2	2	0.99
50	Stone 837 ...	7.0	...	2	1	36.44	127	40	54.3	1	0.01
51	... ..	7.7	4	2	4	0.79	135	3	7.4	5	0.94
52	... ..	8.0	1	2	6	49.84	132	25	30.8	1	0.01
53	... ..	7.7	3	2	8	2.86	131	49	10.8	3	0.99
54	W. B. E. II. 104 ...	8.8	2	2	8	59.88	86	41	51.2	2	0.01
55	Taylor 750 ...	6.1	...	2	9	45.48	131	43	4.0	1	0.01
56	W. B. E. II. 126 ...	8.0	1	2	10	23.30	86	36	49.6	1	0.02
57	67 Ceti ...	5.5	...	2	11	5.83	96	58	0.4	13	0.66
58	Stone 914 ...	6.7	...	2	12	19.87	126	31	54.2	3	0.03
59	W. B. E. II. 177 ...	8.0	2	2	13	21.76	87	43	24.2	3	0.01
60	... ..	7.3	2	2	14	26.01	132	33	40.3	3	0.98
61	70 Ceti ...	5.6	...	2	16	11.76	91	25	23.8	5	0.93
62	Stone 938 ...	7.2	...	2	16	39.06	147	19	29.8	1	0.01
63	... ..	8.2	...	2	19	49.70	134	51	44.9	3	0.90
64	73 Ceti ξ^3 ...	4.4	...	2	21	53.16	82	4	11.9	6	0.02
65	... ..	9.0	1	2	22	23.65	85	23	5.1	2	0.01
66	... ..	7.6	3	2	23	15.79	135	34	33.4	5	0.94
67	Stone 994 ...	7.0	3	2	24	28.55	126	28	5.2	4	0.95
68	R. P. L. 26 ...	8.0	...	2	27	14.04	3	28	7.1	10	0.57
69	... ..	7.7	2	2	28	14.88	149	23	37.2	2	0.98
70	Stone 1038 ...	7.1	4	2	30	25.98	132	37	45.4	5	0.95

54—56—65.—Comparison stars for Camilla in 1881.

61.—Comparison star for Comet in 1882.

59.—Comparison star for Sylvia in 1881.

66.—Carrington 352.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
36	... ..	+ 2.1641	- 0.0134	...	- 18.482	+ 0.130	...	...
37	α Eridani ...	+ 2.2304	- 0.0128	+ 0.008	- 18.415	+ 0.137	+ 0.07	Stone
38	... ..	+ 2.4726	- 0.0120	...	- 18.411	+ 0.151	...	...
39	110 Piscium o	+ 3.1568	+ 0.0111	+ 0.003	- 18.206	+ 0.200	- 0.06	232
40	... ..	+ 2.4876	- 0.0093	...	- 18.010	+ 0.167	...	...
41	55 Ceti ζ	+ 2.9577	+ 0.0023	+ 0.000	- 17.961	+ 0.199	+ 0.03	247
42	45 Cassiopeiæ ε	+ 4.2468	+ 0.0993	+ 0.004	- 17.950	+ 0.283	+ 0.02	239
43	Stone 762	+ 2.6070	- 0.0064	...	- 17.754	+ 0.184	...	...
44	... ..	+ 2.5798	- 0.0066	...	- 17.699	+ 0.185	...	...
45	... ..	+ 2.4245	- 0.0077	...	- 17.601	+ 0.177	...	...
46	... ..	+ 3.0984	+ 0.0084	...	- 17.552	+ 0.226	...	..
47	Stone 815	+ 2.4099	- 0.0066	...	- 17.471	+ 0.188	...	...
48	Stone 824	+ 2.4269	- 0.0067	...	- 17.383	+ 0.183	...	...
49	13 Arietis α	+ 3.3559	+ 0.0203	+ 0.013	- 17.344	+ 0.252	+ 0.13	287
50	Stone 837	+ 2.5497	- 0.0054	...	- 17.296	+ 0.195	...	...
51	... ..	+ 2.3825	- 0.0062	...	- 17.189	+ 0.185	...	..
52	... ..	+ 2.4301	- 0.0055	...	- 17.059	+ 0.193	...	...
53	... ..	+ 2.4383	- 0.0053	...	- 17.004	+ 0.195	...	...
54	W. B. M. II. 104	+ 3.1135	+ 0.0093	...	- 16.961	+ 0.240	...	...
55	Taylor 750	+ 2.4330	- 0.0051	...	- 16.924	+ 0.197	...	...
56	W. B. M. II. 126	+ 3.1149	+ 0.0093	...	- 16.895	+ 0.251	...	...
57	67 Ceti	+ 2.9839	+ 0.0049	+ 0.004	- 16.861	+ 0.242	+ 0.11	321
58	Stone 914	+ 2.5317	- 0.0040	...	- 16.803	+ 0.208	...	...
59	W. B. M. II. 177	+ 3.1015	+ 0.0089	...	- 16.753	+ 0.255	...	...
60	... ..	+ 2.3927	- 0.0046	...	- 16.701	+ 0.200	...	...
61	70 Ceti	+ 3.0537	+ 0.0073	- 0.003	- 16.616	+ 0.256	+ 0.05	335
62	Stone 938	+ 1.9019	- 0.0008	...	- 16.594	+ 0.163	...	...
63	... ..	+ 2.3100	- 0.0040	...	- 16.436	+ 0.200	...	...
64	73 Ceti ξ ^a	+ 3.1804	+ 0.0117	+ 0.001	- 16.333	+ 0.276	+ 0.00	347
65	... ..	+ 3.1351	+ 0.0101	...	- 16.307	+ 0.273	...	...
66	... ..	+ 2.2741	- 0.0035	...	- 16.262	+ 0.201	...	...
67	Stone 994	+ 2.4899	- 0.0028	...	- 16.200	+ 0.222	...	...
68	R. P. L. 26	+ 16.2875	+ 3.7907	...	- 16.056	+ 1.430	...	...
69	... ..	+ 2.7103	+ 0.0047	...	- 16.003	+ 0.157	...	...
70	Stone 1038	+ 2.3213	- 0.0027	...	- 15.886	+ 0.213	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
71	.. .. .	7.5	5	2	32	40.62	131	15	26.1	5	0.93
72	Stone 1073 .. .	8.0	...	2	34	53.97	143	27	42.5	4	0.01
73	86 Ceti γ^3 .. .	3.6	...	2	37	11.20	87	15	45.3	9	0.04
74	.. .. .	9.0	...	2	37	29.22	136	6	27.6	2	0.97
75	.. .. .	7.7	3	2	42	47.63	149	53	23.0	4	0.93
76	43 Arietis σ .. .	5.5	...	2	44	58.66	75	24	19.2	28	0.33
77	.. .. .	7.5	2	2	47	0.25	133	19	7.6	2	0.98
78	3 Eridani η .. .	4.0	...	2	50	39.75	99	22	7.9	4	0.04
79	Stone 1208... ..	6.6	...	2	50	57.57	146	21	42.7	1	0.96
80	.. .. .	8.5	...	2	52	41.77	137	12	0.8	5	0.02
81	Taylor 1024 .. .	7.4	...	2	55	44.91	132	20	35.1	2	0.99
82	92 Ceti α (<i>Menkar</i>) .. .	2.7	...	2	56	6.71	86	22	28.7	4	0.04
83	.. .. .	8.5	...	2	57	39.59	132	18	7.6	1	0.97
84	Stone 1264 .. .	8.0	...	2	59	11.50	134	30	58.4	2	0.97
85	G. C. Z. II. 1603 .. .	7.5	1	2	59	31.98	130	34	6.1	1	0.96
86	Stone 1279 .. .	7.5	...	3	1	16.79	127	47	51.1	2	0.02
87	.. .. .	7.0	1	3	1	17.77	150	25	34.6	1	0.03
88	.. .. .	7.0	2	3	3	32.09	129	45	7.2	3	0.03
89	R. P. L. 33 .. .	5.8	...	3	4	36.14	5	30	41.2	5	0.39
90	57 Arietis δ .. .	4.5	...	3	4	52.88	70	43	11.8	1	0.04
91	.. .. .	7.3	4	3	8	28.19	127	24	13.6	4	0.02
92	Stone 1342 .. .	7.0	2	3	9	48.48	130	41	46.1	3	0.99
93	Taylor 1118 .. .	6.7	...	3	11	55.32	126	7	35.9	4	0.97
94	Stone 1364 .. .	7.0	...	3	12	11.86	149	57	0.9	3	0.02
95	.. .. .	8.0	2	3	12	14.85	126	8	52.7	2	0.94
96	33 Persei α .. .	1.9	...	3	15	54.18	40	33	36.4	1	0.95
97	.. .. .	7.0	2	3	18	15.41	126	59	57.4	3	0.03
98	1 Tauri σ , Var. 5 .. .	Var.	...	3	18	27.88	81	23	14.7	6	0.97
99	.. .. .	7.0	...	3	19	8.27 ¹⁰	134	39	11.0	1	0.01
100	Stone 1414 .. .	7.0	...	3	19	14.85	130	29	41.9	2	0.99
101	.. .. .	8.0	3	3	20	20.77	149	21	14.2	3	0.05
102	.. .. .	8.0	2	3	20	58.16	149	24	38.9	4	0.06
103	χ^1 Fornacis .. .	6.2	...	3	21	22.20	126	20	7.0	5	0.05
104	Stone 1430 .. .	7.0	...	3	21	25.45	126	22	23.1	4	0.04
105	.. .. .	7.7	1	3	26	28.22	135	8	15.0	1	0.97

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
71	... ..	+ 2.3475	- 0.0024	...	- 15.767	+ 0.218	...	...
72	Stone 1073	+ 1.9437	+ 0.0004	...	- 15.646	+ 0.184	...	...
73	86 Ceti γ^a	+ 3.1129	+ 0.0094	- 0.011	- 15.519	+ 0.294	+ 0.16	383
74	... ..	+ 2.1908	- 0.0014	...	- 15.502	+ 0.209	...	...
75	... ..	+ 1.5691	+ 0.0081	...	- 15.204	+ 0.156	...	...
76	43 Arietis σ	+ 3.3019	+ 0.0150	- 0.000	- 15.078	+ 0.323	+ 0.04	400
77	... ..	+ 2.2328	- 0.0008	...	- 14.961	+ 0.223	...	...
78	3 Eridani η	+ 2.9231	+ 0.0052	+ 0.004	- 14.746	+ 0.294	+ 0.22	413
79	Stone 1208	+ 1.7087	+ 0.0052	...	- 14.729	+ 0.175	...	...
80	.. ...	+ 2.0845	+ 0.0004	...	- 14.613	+ 0.214	...	...
81	Taylor 1024	+ 2.2270	0.0000	...	- 14.441	+ 0.233	...	...
82	92 Ceti α	+ 3.1312	+ 0.0098	- 0.003	- 14.419	+ 0.333	+ 0.07	428
83	... ..	+ 2.2204	+ 0.0001	...	- 14.324	+ 0.232	...	...
84	Stone 1264	+ 2.1461	+ 0.0005	...	- 14.230	+ 0.226	...	...
85	G. C. Z. II. 1603	+ 2.2646	+ 0.0003	...	- 14.208	+ 0.239	...	...
86	Stone 1279	+ 2.3350	+ 0.0002	...	- 14.101	+ 0.248	...	...
87	... ..	+ 1.3970	+ 0.0124	...	- 14.009	+ 0.151	...	...
88	... ..	+ 2.2740	+ 0.0004	...	- 13.960	+ 0.244	...	...
89	R. P. L. 33	+ 13.0645	+ 1.6135	+ 0.044	- 13.893	+ 1.379	+ 0.12	Gr.
90	57 Arietis δ	+ 3.4100	+ 0.0171	+ 0.010	- 13.875	+ 0.304	- 0.01	446
91	... ..	+ 2.3232	+ 0.0007	...	- 13.647	+ 0.254	...	...
92	Stone 1342	+ 2.2253	+ 0.0010	...	- 13.561	+ 0.245	...	...
93	Taylor 1118	+ 2.3474	+ 0.0009	...	- 13.424	+ 0.260	...	...
94	Stone 1364	+ 1.3536	+ 0.0132	...	- 13.406	+ 0.153	...	...
95	... ..	+ 2.3459	+ 0.0009	...	- 13.403	+ 0.260	...	...
96	33 Persoi α	+ 4.2507	+ 0.0483	+ 0.002	- 13.163	+ 0.472	+ 0.03	464
97	... ..	+ 2.3056	+ 0.0013	...	- 13.007	+ 0.262	...	...
98	1 Tauri σ	+ 3.2266	+ 0.0115	- 0.005	- 12.993	+ 0.364	+ 0.07	477
99	... ..	+ 2.0637	+ 0.0019	...	- 12.948	+ 0.241	...	...
100	Stone 1414	+ 2.2002	+ 0.0016	...	- 12.942	+ 0.251	...	...
101	... ..	+ 1.3416	+ 0.0131	...	- 12.868	+ 0.156	...	...
102	... ..	+ 1.3337	+ 0.0132	...	- 12.825	+ 0.155	...	...
103	χ^1 Fornacis	+ 2.3153	+ 0.0015	...	- 12.798	+ 0.265	...	...
104	Stone 1430	+ 2.3141	+ 0.0015	...	- 12.795	+ 0.265	...	...
105	... ..	+ 2.0193	+ 0.0028	...	- 12.451	+ 0.236	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
106	... ..	7.5	4	3	27	12.79	126	6	24.0	4	0.02
107	18 Eridani ϵ	3.7	...	3	27	22.23	99	51	32.1	11	0.32
108	R. P. L. 34	5.9	...	3	28	0.02	3	43	41.1	8	0.96
109	... ..	8.0	2	3	29	5.39	148	29	55.6	2	0.02
110	... ..	7.1	3	3	31	56.58	125	10	50.5	4	0.02
111	Stone 1522	7.8	...	3	34	37.68	136	37	35.5	3	0.99
112	... ..	8.0	2	3	34	56.48	124	22	12.8	4	0.05
113	Stone 1541	7.7	...	3	36	51.45	146	31	46.3	3	0.07
114	W. B. N. III. 803 ..	9.0	5	3	37	31.20	69	52	20.8	5	0.05
115	Stone 1550	8.0	...	3	37	39.32	146	55	58.2	3	0.04
116	Stone 1553	8.8	...	3	38	5.37	146	27	40.9	5	0.03
117	25 Tauri η (<i>Acyone</i>) ...	3.0	...	3	40	28.19	66	15	40.6	3	0.67
118	Stone 1608	6.9	...	3	43	59.17	141	7	^{55.6} 1.9	2	0.01
119	... ..	8.0	1	3	44	16.10	136	26	58.3	1	0.98
120	Stone 1620	8.0	...	3	45	10.46	147	59	33.1	3	0.03
121	... ..	8.0	2	3	45	29.76	124	23	9.7	2	0.02
122	... ..	8.0	5	3	47	48.45	124	42	58.0	5	0.06
123	... ..	7.5	4	3	52	19.85	148	4	6.7	4	0.03
124	34 Eridani γ^1	3.0	...	3	52	31.40	103	50	45.5	7	0.07
125	... ..	8.0	4	3	53	25.81	124	51	1.4	3	0.01
126	Stone 1710	6.7	...	3	57	31.53	124	48	40.5	3	0.02
127	37 Tauri A ¹	4.4	...	3	57	43.17	68	14	30.4	4	0.09
128	... ..	8.0	2	3	59	15.10	143	56	48.3	5	0.07
129	... ..	8.0	3	3	59	17.66	128	55	42.7	3	0.01
130	R. P. L. 35	6.7	...	3	59	56.75	4	45	28.4	13	0.54
131	... ..	7.0	2	4	0	38.39	131	36	17.4	2	0.01
132	Lacaille 1356	7.8	...	4	0	39.83	143	15	6.3	5	0.05
133	Lacaille 1366	6.9	...	4	3	19.94	127	22	34.9	4	0.03
134	... ..	8.0	4	4	5	9.28	126	57	51.6	3	0.02
135	38 Eridani ϕ^1	4.1	...	4	6	6.33	97	8	47.0	2	0.08
136	... ..	8.0	4	4	7	29.99	150	36	41.2	4	0.03
137	W. B. N. IV. 145... ..	8.5	1	4	9	48.41	66	57	19.4	5	0.04
138	... ..	7.0	3	4	10	8.24	128	33	35.9	5	0.04
139	... ..	8.8	2	4	10	11.18	128	36	54.1	3	0.04
140	54 Tauri γ	3.9	...	4	13	4.73	74	39	31.3	9	0.18

108.—Groombridge 642.

114—137.—Comparison stars for Ariadne in 1881.

130.—Groombridge 750.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
106	... ..	+ 2.3060	+ 0.0018	...	- 12.401	+ 0.269	...	...
107	18 Eridani e	+ 2.8897	+ 0.0055	- 0.068	- 12.389	+ 0.336	- 0.01	493
108	R. P. L. 34	+ 19.2400	+ 3.2536	+ 0.136	- 12.346	+ 2.216	+ 0.06	Gr.
109	... ..	+ 1.3467	+ 0.0126	...	- 12.271	+ 0.160	...	...
110	... ..	+ 2.3198	+ 0.0020	...	- 12.073	+ 0.275	...	...
111	Stone 1522	+ 1.9325	+ 0.0038	...	- 11.884	+ 0.232	...	...
112	... ..	+ 2.3353	+ 0.0055	...	- 11.862	+ 0.279	...	...
113	Stone 1541	+ 1.4319	+ 0.0106	...	- 11.727	+ 0.174	...	...
114	W. B. N. III. 803	+ 3.4706	+ 0.0159	...	- 11.679	+ 0.416	...	...
115	Stone 1550	+ 1.4025	+ 0.0111	...	- 11.670	+ 0.174	...	...
116	Stone 1553	+ 1.4298	+ 0.0106	...	- 11.639	+ 0.175	...	...
117	25 Tauri η	+ 3.5546	+ 0.0177	- 0.000	- 11.460	+ 0.430	+ 0.04	521
118	Stone 1608	+ 1.6980	+ 0.0063	...	- 11.214	+ 0.210	...	...
119	... ..	+ 1.9051	+ 0.0042	...	- 11.195	+ 0.235	...	...
120	Stone 1620	+ 1.2931	+ 0.0129	...	- 11.120	+ 0.162	...	...
121	... ..	+ 2.3105	+ 0.0025	...	- 11.105	+ 0.286	...	...
122	... ..	+ 2.2959	+ 0.0025	...	- 10.936	+ 0.285	...	...
123	... ..	+ 1.2514	+ 0.0133	...	- 10.603	+ 0.160	...	...
124	34 Eridani γ^1	+ 2.7925	+ 0.0047	+ 0.003	- 10.588	+ 0.351	+ 0.11	546
125	... ..	+ 2.2798	+ 0.0027	...	- 10.521	+ 0.288	...	...
126	Stone 1710	+ 2.2724	+ 0.0029	...	- 10.215	+ 0.289	...	...
127	37 Tauri A ¹	+ 3.5318	+ 0.0153	+ 0.005	- 10.200	+ 0.447	+ 0.06	554
128	... ..	+ 1.4849	+ 0.0089	...	- 10.084	+ 0.191	...	...
129	... ..	+ 2.1388	+ 0.0031	...	- 10.081	+ 0.273	...	...
130	R. P. L. 35	+ 16.9813	+ 1.8050	+ 0.002	- 10.030	+ 2.146	- 0.02	750
131	... ..	+ 2.0425	+ 0.0036	...	- 9.978	+ 0.262	...	...
132	Lacaille 1356	+ 1.5192	+ 0.0085	...	- 9.975	+ 0.196	...	...
133	Lacaille 1366	+ 2.1805	+ 0.0032	...	- 9.773	+ 0.281	...	...
134	... ..	+ 2.1899	+ 0.0025	...	- 9.633	+ 0.307	...	...
135	38 Eridani ϕ^1	+ 2.9250	+ 0.0058	- 0.001	- 9.560	+ 0.379	- 0.09	568
136	... ..	+ 0.9789	+ 0.0173	...	- 9.453	+ 0.130	...	...
137	W. B. N. IV. 145	+ 3.5765	+ 0.0149	...	- 9.277	+ 0.466	...	...
138	... ..	+ 2.1267	+ 0.0034	...	- 9.249	+ 0.279	...	...
139	... ..	+ 2.1247	+ 0.0034	...	- 9.248	+ 0.279	...	...
140	54 Tauri γ	+ 3.3999	+ 0.0115	+ 0.007	- 9.020	+ 0.446	+ 0.03	583

108—Proper motions from Greenwich Catalogue, 1880.

Mean Positions of Stars for 1882, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
141	ψ Horologii—2nd...	8.3	...	4	15	38.50	134	33	35.8	5	0.05
142	... ..	8.0	1	4	16	12.57	125	22	6.3	1	0.01
143	... ..	8.0	...	4	17	5.00	149	1	48.6	5	0.03
144	Taylor 1553 ...	8.3	...	4	20	47.59	134	17	31.4	1	0.98
145	74 Tauri ε ..	3.7	...	4	21	43.53	71	4	56.5	7	0.07
146	Stone 1895 ...	8.5	...	4	22	15.06	128	51	13.2	2	0.01
147	Taylor 1582 ...	6.4	...	4	23	27.19	151	30	24.5	1	0.06
148	Stone 1914 ...	7.8	...	4	24	36.95	143	39	59.0	5	0.08
149	... ..	8.0	4	4	25	8.24	125	32	49.5	4	0.02
150	Taylor 1595 ...	6.9	...	4	26	58.38	131	25	41.1	1	0.99
151	... ..	8.5	3	4	28	10.77	126	35	32.3	4	0.04
152	Stone 1961 ...	8.0	...	4	28	54.35	128	32	1.1	4	0.02
153	Stone 1991 ...	7.3	...	4	32	29.12	135	22	38.1	1	0.98
154	... ..	7.5	4	4	35	35.18	125	52	36.6	4	0.01
155	Lacaille 1566 ...	6.8	...	4	36	4.45	143	26	13.4	1	0.02
156	Taylor 1654 ...	6.7	...	4	36	8.91	141	54	17.5	5	0.07
157	W. B. E. IV. 755 ...	7.1	5	4	36	17.93	75	24	42.3	5	0.03
158	... ..	9.5	4	4	37	22.91	75	40	1.1	5	0.10
159	W. B. E. IV. 794 ...	8.0	5	4	38	3.44	75	35	37.2	5	0.10
160	57 Eridani μ ...	4.3	...	4	39	36.13	93	23	20.0	6	0.35
161	... ..	7.0	2	4	43	6.10	126	25	14.5	2	0.01
162	... ..	8.1	3	4	44	40.42	149	26	7.8	5	0.03
163	Stone 2096 ...	6.8	...	4	45	15.41	149	20	43.2	5	0.03
164	R. P. L. 37 ...	7.0	...	4	50	6.69	4	12	1.0	8	0.54
165	... ..	9.5	2	4	52	36.42	131	48	39.3	4	0.06
166	... ..	7.2	3	4	54	20.08	131	43	46.7	4	0.03
167	... ..	8.6	4	4	55	27.88	130	3	5.7	4	0.09
168	... ..	7.8	3	4	56	20.70	75	24	18.3	4	0.04
169	... ..	7.2	3	4	59	10.43	131	46	34.4	3	0.02
170	2 Leporis ε ...	3.3	...	5	0	27.81	112	31	50.9	4	0.05
171	67 Eridani β ...	2.8	...	5	2	2.91	95	14	26.1	5	0.08
172	R. P. L. 39 ...	7.0	...	5	3	53.58	4	26	10.3	2	0.49
173	... ..	8.0	3	5	5	32.72	129	21	15.5	3	0.01
174	19 Orionis β (<i>Rigel</i>) ...	0.3	...	5	8	51.92	98	20	23.0	1	0.10
175	... ..	7.9	4	5	12	47.67	128	43	25.9	4	0.01

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
141	ψ Horologii—2 nd ...	+ 1.8900	+ 0.0045	- 0.002	- 8.819	+ 0.251	- 0.03	Stone
142	... ..	+ 2.2190	+ 0.0033	...	- 8.776	+ 0.205	...	...
143	... ..	+ 1.0655	+ 0.0145	...	- 8.706	+ 0.144	...	...
144	Taylor 1553 .	+ 1.8882	+ 0.0046	...	- 8.412	+ 0.254	...	...
145	74 Tauri ϵ ...	+ 3.4890	+ 0.0120	+ 0.007	- 8.838	+ 0.466	+ 0.03	609
146	Stone 1895 ...	+ 2.0919	+ 0.0036	...	- 8.296	+ 0.282	...	...
147	Taylor 1582 ...	+ 0.8245	+ 0.0181	...	- 8.201	+ 0.113	...	...
148	Stone 1914 ...	+ 1.4097	+ 0.0088	...	- 8.108	+ 0.190	...	...
149	... ..	+ 2.1977	+ 0.0033	...	- 8.066	+ 0.206	...	...
150	Taylor 1595 ...	+ 1.9884	+ 0.0041	...	- 7.918	+ 0.269	...	...
151	... ..	+ 2.1583	+ 0.0035	...	- 7.821	+ 0.293	...	...
152	Stone 1961 ...	+ 2.0906	+ 0.0036	...	- 7.762	+ 0.284	...	...
153	Stone 1991 ...	+ 1.8152	+ 0.0048	...	- 7.473	+ 0.240	...	...
154	... ..	+ 2.1702	+ 0.0035	...	- 7.220	+ 0.298	...	...
155	Lacaille 1566 ...	+ 1.0403	+ 0.0128	...	- 7.181	+ 0.144	...	...
156	Taylor 1654 ...	+ 1.4799	+ 0.0074	...	- 7.174	+ 0.204	...	...
157	W. B. E. IV. 755 ...	+ 3.3974	+ 0.0095	...	- 7.163	+ 0.465	...	...
158	... ..	+ 3.3920	+ 0.0094	...	- 7.074	+ 0.466	...	...
159	W. B. E. IV. 794 ...	+ 3.3941	+ 0.0094	...	- 7.018	+ 0.466	...	...
160	57 Eridani μ ...	+ 2.9062	+ 0.0055	- 0.000	- 6.891	+ 0.413	+ 0.00	657
161	... ..	+ 2.1409	+ 0.0035	...	- 6.603	+ 0.298	...	...
162	... ..	+ 0.9296	+ 0.0133	...	- 6.473	+ 0.131	...	...
163	Stone 2096 ...	+ 0.9355	+ 0.0131	...	- 6.425	+ 0.132	...	...
164	R. P. L. 37 ...	+ 20.4369	+ 1.5002	...	- 6.021	+ 2.845	...	...
165	... ..	+ 1.9279	+ 0.0040	...	- 5.813	+ 0.272	...	...
166	... ..	+ 1.9286	+ 0.0040	...	- 5.668	+ 0.272	...	...
167	... ..	+ 1.9928	+ 0.0038	...	- 5.572	+ 0.281	...	...
168	... ..	+ 3.4072	+ 0.0079	...	- 5.498	+ 0.480	...	...
169	... ..	+ 1.9199	+ 0.0064	...	- 5.260	+ 0.273	...	...
170	2 Leporis ϵ ...	+ 2.5363	+ 0.0033	+ 0.000	- 5.151	+ 0.359	+ 0.07	713
171	67 Eridani β ...	+ 2.9536	+ 0.0045	- 0.007	- 5.017	+ 0.419	+ 0.07	715
172	R. P. L. 39 ...	+ 19.7913	+ 1.1070	...	- 4.861	+ 2.802	...	...
173	... ..	+ 2.0069	+ 0.0036	...	- 4.720	+ 0.286	...	...
174	19 Orionis β ...	+ 2.8812	+ 0.0040	- 0.001	- 4.487	+ 0.412	- 0.01	736
175	... ..	+ 2.0199	+ 0.0035	...	- 4.102	+ 0.290	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
176	24 Orionis γ	1.9	...	5	18	48.09	83	45	32.3	5	0.07
177	112 Tauri β	1.9	...	5	18	49.95	61	29	38.4	14	0.05
178	R. P. L. 40	6.0	...	5	24	19.00	4	52	3.9	4	0.63
179	34 Orionis δ , Var. 1 ...	Var.	...	5	25	58.72	90	23	15.4	1	0.09
180	11 Leporis α	2.7	...	5	27	31.50	107	54	28.8	3	0.06
181	R. P. L. 41... ..	7.5	...	5	28	55.10	4	45	1.7	11	0.17
182	46 Orionis ϵ	1.8	...	5	30	13.50	91	16	43.1	3	0.09
183	53 Orionis κ	2.2	...	5	42	9.52	99	42	46.3	7	0.08
184	58 Orionis α , Var. 2 (<i>Betel- geuse</i>)	Var.	...	5	46	46.99	82	36	59.4	5	0.11
185	13 Geminorum μ	3.2	...	6	15	49.22	67	25	40.6	2	0.05
186	31 Geminorum ξ	3.4	...	6	38	39.98	76	58	42.9	8.	0.16
187	W. B. N. VI. 1280 ...	8.0	3	6	44	10.22	47	14	34.8	5	0.07
188	51 Cephei (<i>Hev.</i>) ... ..	...	...	6	44	46.22	2	46	23.2	10	0.35
189	14 Canis Majoris θ ...	4.2	...	6	48	42.45	101	53	29.6	5	0.20
190	... ..	10.0	2	6	50	50.41	46	59	59.5	4	0.07
191	W. B. N. VII. 604 ...	7.6	5	7	23	19.33	47	6	49.4	5	0.09
192	10 Can. Min. α (<i>Procyon</i>)..	0.5	...	7	33	7.49	84	28	25.1	4	0.21
193	... ..	9.8	5	7	34	12.66	47	1	34.2	5	0.10
194	R. P. L. 45	7.2	...	7	37	34.07	1	1	18.8	1	0.64
195	7 Argus ξ	3.4	...	7	44	19.89	114	33	52.2	7	0.23
196	R. P. L. 48	7.4	...	7	46	24.96	3	57	53.8	11	0.29
197	R. P. L. 49	6.7	...	7	48	31.36	5	36	26.0	3	0.69
198	6 Cancri	5.0	...	7	56	16.15	61	52	32.2	5	0.22
199	17 Cancri β	3.8	...	8	10	6.91	80	27	6.7	10	0.25
200	R. P. L. 53	7.7	...	8	20	21.86	4	31	56.8	13	0.36
201	R. P. L. 55... ..	7.5	...	8	31	18.26	5	40	38.2	15	0.42
202	R. P. L. 60... ..	7.0	...	8	50	29.91	5	20	57.5	4	0.73
203	9 Ursæ Majoris α	3.2	...	8	51	7.32	41	29	46.0	8	0.24
204	76 Cancri κ	5.0	...	9	1	21.34	78	51	28.1	19	0.19
205	R. P. L. 62... ..	8.1	...	9	21	1.54	2	21	14.4	14	0.40
206	14 Leonis σ	3.8	..	9	34	51.11	79	34	16.7	28	0.19
207	R. P. L. 69... ..	7.9	...	9	38	33.34	2	51	38.6	10	0.70
208	24 Leonis μ	4.1	...	9	46	3.04	63	26	17.0	22	0.16
209	R. P. L. 70... ..	5.0	...	9	49	29.48	5	30	50.1	3	0.13
210	R. Velorum, Var. 1 ...	Var.	...	10	1	42.46	141	36	51.0	2	0.14

173.—Groombridge 944.

187—190—191—193.—Comparison stars for Encke's Comet in 1881.

194.—Groombridge 1119.

202.—Carrington 1286.

197.—Groombridge 1359.

207.—Carrington 1418.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
176	24 Orionis γ ...	+ 3.2162	+ 0.0048	- 0.002	- 3.586	+ 0.463	+ 0.02	761
177	112 Tauri β ...	+ 3.7868	+ 0.0082	+ 0.001	- 3.583	+ 0.545	+ 0.18	756
178	R. P. L. 40 ...	+ 18.5811	+ 0.6005	...	- 3.110	+ 2.678	...	...
179	34 Orionis δ ...	+ 3.0634	+ 0.0038	- 0.001	- 2.966	+ 0.443	+ 0.01	787
180	11 Leporis α ...	+ 2.6446	+ 0.0029	- 0.001	- 2.832	+ 0.383	- 0.01	796
181	R. P. L. 41 ...	+ 19.0118	+ 0.5497	...	- 2.711	+ 2.748	...	...
182	46 Orionis ϵ ...	+ 3.0427	+ 0.0035	- 0.002	- 2.598	+ 0.441	- 0.01	809
183	53 Orionis κ ...	+ 2.8441	+ 0.0027	- 0.002	- 1.559	+ 0.414	- 0.00	844
184	58 Orionis α ...	+ 3.2454	+ 0.0027	+ 0.001	- 0.981	+ 0.473	- 0.02	860
185	13 Geminorum μ ...	+ 3.6268	- 0.0003	+ 0.004	+ 1.383	+ 0.527	+ 0.10	929
186	31 Geminorum ξ ...	+ 3.3772	- 0.0017	- 0.009	+ 3.368	+ 0.485	+ 0.20	989
187	W. B. N. VI. 1280 ...	+ 4.2856	- 0.0104	...	+ 3.841	+ 0.612	...	...
188	51 Cephei (<i>Hav.</i>) ...	+ 30.1525	- 2.2422	- 0.040	+ 3.892	+ 4.311	+ 0.05	Gr.
189	14 Canis Majoris θ ...	+ 2.7971	+ 0.0004	- 0.011	+ 4.231	+ 0.397	+ 0.00	1011
190	... ..	+ 4.2885	- 0.0123	...	+ 4.412	+ 0.608	...	...
191	W. B. N. VII. 604 ...	+ 4.2329	- 0.0201	...	+ 7.132	+ 0.575	...	..
192	10 Canis Minoris α ...	+ 3.1912	- 0.0041	- 0.047	+ 7.927	+ 0.425	+ 1.03	1106
193	... ..	+ 4.2141	- 0.0027	...	+ 8.013	+ 0.561	...	...
194	R. P. L. 45 ...	+ 71.3325	- 31.4566	...	+ 8.281	+ 9.469	...	...
195	7 Argus ξ ...	+ 2.5235	+ 0.0008	- 0.001	+ 8.817	+ 0.327	- 0.02	1132
196	R. P. L. 48 ...	+ 20.3181	- 2.3703	...	+ 8.980	+ 2.645	...	...
197	R. P. L. 49 ...	+ 15.1917	- 1.2419	...	+ 9.145	+ 1.966	...	...
198	6 Cancri ...	+ 3.6909	- 0.0148	- 0.003	+ 9.743	+ 0.468	+ 0.04	1149
199	17 Cancri β ...	+ 3.2619	- 0.0072	- 0.004	+ 10.784	+ 0.397	+ 0.04	1180
200	R. P. L. 53 ...	+ 16.8722	- 2.1731	...	+ 11.530	+ 2.008	...	...
201	R. P. L. 55 ...	+ 13.6947	- 1.4676	...	+ 12.299	+ 1.572	...	...
202	R. P. L. 60 ...	+ 13.5781	- 1.7029	...	+ 13.580	+ 1.451	...	...
203	9 Ursæ Majoris ϵ ...	+ 4.1816	- 0.0446	- 0.044	+ 13.621	+ 0.443	+ 0.25	1260
204	76 Cancri κ ...	+ 3.2574	- 0.0093	- 0.003	+ 14.264	+ 0.329	- 0.01	1287
205	R. P. L. 62 ...	+ 23.8663	- 8.1350	...	+ 15.420	+ 2.217	...	...
206	14 Leonis σ ...	+ 3.2179	- 0.0093	- 0.010	+ 16.165	+ 0.272	+ 0.02	1360
207	R. P. L. 69 ...	+ 18.5550	- 5.4111	...	+ 16.355	+ 1.559	...	...
208	24 Leonis μ ...	+ 3.4411	- 0.0198	- 0.019	+ 16.725	+ 0.271	+ 0.05	1384
209	R. P. L. 70 ...	+ 10.5392	- 1.5343	...	+ 16.889	+ 0.821	...	...
210	R. Velorum ...	+ 2.2389	+ 0.0033	...	+ 17.441	+ 0.154	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.				Magnitude.	Estimations.	Mean			Mean			Observations.	Fraction of Year.
							Right Ascension.			Polar Distance.				
							<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
211	...	...	...	...	8.1	5	10	1	59.24	150	35	53.7	5	0.15
212	...	...	...	...	9.0	1	10	3	2.44	126	29	3.0	1	0.12
213	...	...	...	...	9.3	3	10	3	11.07	127	21	37.4	3	0.12
214	...	...	...	...	9.0	5	10	7	12.31	153	24	34.7	5	0.16
215	...	...	...	...	9.3	5	10	11	6.85	152	0	15.4	5	0.14
216	Stone 5606	...	...	...	7.5	...	10	11	43.19	151	56	57.4	5	0.14
217	R. P. L. 72	...	...	...	6.0	...	10	12	17.49	5	8	58.3	2	0.19
218	...	...	...	...	9.0	3	10	19	14.46	127	58	54.0	5	0.13
219	Taylor 4656	...	...	...	8.3	...	10	19	21.35	151	7	12.6	5	0.15
220	42 Hydræ μ	...	...	...	4.1	...	10	20	22.98	106	14	3.5	10	0.19
221	Taylor 4674	...	...	...	6.9	...	10	21	15.46	128	45	41.7	5	0.15
222	...	...	...	...	8.0	5	10	26	22.03	150	43	53.7	5	0.14
223	Taylor 4728	...	...	...	6.9	...	10	26	27.34	150	45	6.4	5	0.14
224	...	...	...	...	9.0	3	10	27	17.68	128	41	37.3	5	0.18
225	Taylor 4781	...	...	...	7.3	...	10	32	5.75	148	34	43.3	6	0.17
226	Taylor 4783	...	...	...	8.0	...	10	32	12.73	148	33	21.8	5	0.17
227	Stone 5854	...	...	...	9.0	...	10	33	35.71	149	32	5.0	5	0.13
228	Taylor 4831	...	...	...	7.5	...	10	38	0.93	146	15	32.7	5	0.15
229	...	...	...	...	9.0	5	10	40	57.35	127	13	5.8	5	0.15
230	Taylor 4869	...	...	...	8.3	...	10	41	36.46	148	41	50.7	5	0.15
231	...	...	...	...	9.0	1	10	41	43.32	137	6	38.0	1	0.12
232	Taylor 4912	...	...	...	7.1	...	10	46	58.33	146	38	46.0	4	0.15
233	...	...	...	...	7.0	1	10	48	35.40	150	11	14.4	1	0.12
234	...	...	...	...	8.0	5	10	48	42.83	126	37	54.3	5	0.13
235	...	...	...	...	8.8	4	10	49	51.25	150	25	4.2	5	0.17
236	58 Leonis δ	...	...	...	5.0	...	10	54	27.95	85	44	56.9	20	0.22
237	...	...	...	...	9.0	5	10	55	15.00	148	15	4.9	5	0.14
238	...	...	...	...	8.6	5	10	55	30.12	148	20	58.3	5	0.15
239	Taylor 5033	...	...	...	6.0	...	10	59	12.78	137	2	38.9	5	0.19
240	...	...	...	...	9.0	5	10	59	21.16	131	0	22.9	5	0.16
241	R. P. L. 80	...	...	...	7.2	...	11	0	3.26	3	43	13.0	20	0.52
242	R. P. L. 79	...	...	...	7.7	...	11	0	3.67	1	43	9.9	7	0.34
243	...	...	...	...	9.0	5	11	0	17.98	147	33	47.7	5	0.16
244	...	...	...	...	9.0	4	11	4	7.83	148	5	6.2	5	0.15
245	W. B. N. XI. 50	...	...	...	9.0	4	11	5	24.07	71	11	16.2	5	0.29

217.—Groombridge 1620.

242.—Carrington 1639.

245.—Comparison star for Isis in 1882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
211	... ..	+ 1.9039	+ 0.0078	...	+ 17.453	+ 0.130	...	...
212	... ..	+ 2.5894	+ 0.0097	...	+ 17.488	+ 0.177	...	...
213	... ..	+ 2.5743	+ 0.0100	...	+ 17.504	+ 0.175	...	...
214	... ..	+ 1.8102	+ 0.0063	...	+ 17.673	+ 0.117	...	...
215	... ..	+ 1.9220	+ 0.0096	...	+ 17.832	+ 0.120	...	...
216	Stone 5606 ...	+ 1.9306	+ 0.0099	...	+ 17.857	+ 0.120	...	...
217	R. P. L. 72 ...	+ 9.7907	- 1.5945	- 0.096	+ 17.881	+ 0.639	- 0.04	1399
218	... ..	+ 2.6280	+ 0.0119	...	+ 18.147	+ 0.156	...	...
219	Taylor 4656 ...	+ 2.0418	+ 0.0134	...	+ 18.151	+ 0.119	...	...
220	42 Hydræ μ ...	+ 2.9084	+ 0.0040	- 0.010	+ 18.190	+ 0.171	+ 0.06	1451
221	Taylor 4674 ...	+ 2.6241	+ 0.0125	...	+ 18.221	+ 0.152	...	...
222	... ..	+ 2.1246	+ 0.0163	...	+ 18.404	+ 0.115	...	...
223	Taylor 4728 ...	+ 2.1248	+ 0.0163	...	+ 18.406	+ 0.115	...	...
224	... ..	+ 2.6508	+ 0.0134	...	+ 18.435	+ 0.144	...	...
225	Taylor 4781 ...	+ 2.2534	+ 0.0189	...	+ 18.597	+ 0.115	...	...
226	Taylor 4783 ...	+ 2.2551	+ 0.0189	...	+ 18.600	+ 0.115	...	...
227	Stone 5854 ...	+ 2.2357	+ 0.0193	...	+ 18.646	+ 0.112	...	...
228	Taylor 4831 ...	+ 2.3714	+ 0.0207	...	+ 18.784	+ 0.113	...	...
229	... ..	+ 2.7290	+ 0.0148	...	+ 18.873	+ 0.130	...	...
230	Taylor 4869 ...	+ 2.3348	+ 0.0221	...	+ 18.892	+ 0.107	...	...
231	... ..	+ 2.5904	+ 0.0186	...	+ 18.895	+ 0.120	...	...
232	Taylor 4912 ...	+ 2.4360	+ 0.0235	...	+ 19.045	+ 0.104	...	...
233	... ..	+ 2.3570	+ 0.0246	...	+ 19.089	+ 0.098	...	...
234	... ..	+ 2.7681	+ 0.0151	...	+ 19.091	+ 0.114	...	...
235	... ..	+ 2.3627	+ 0.0254	...	+ 19.122	+ 0.096	...	...
236	58 Leonis δ ...	+ 3.1003	- 0.0039	- 0.002	+ 19.239	+ 0.120	+ 0.01	1526
237	... ..	+ 2.4701	+ 0.0268	...	+ 19.250	+ 0.093	...	...
238	... ..	+ 2.4699	+ 0.0269	...	+ 19.265	+ 0.093	...	...
239	Taylor 5033 ...	+ 2.6958	+ 0.0221	...	+ 19.353	+ 0.096	...	...
240	... ..	+ 2.7683	+ 0.0187	...	+ 19.356	+ 0.098	...	...
241	R. P. L. 80 ...	+ 8.3931	- 1.9845	...	+ 19.372	+ 0.309	...	...
242	R. P. L. 79 ...	+ 14.5991	- 8.1819	...	+ 19.372	+ 0.543	...	...
243	... ..	+ 2.5306	+ 0.0281	...	+ 19.377	+ 0.087	...	...
244	... ..	+ 2.5547	+ 0.0376	...	+ 19.461	+ 0.082	...	...
245	W. B. N. XI. 50	+ 3.1798	- 0.0117	...	+ 19.487	+ 0.102	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
246	... ..	9.0	5	11	7	10.90	151	6	47.0	5	0.14
247	... ..	9.0	5	11	8	22.19	146	38	36.1	5	0.15
248	... ..	8.8	4	11	9	5.80	145	24	18.6	4	0.15
249	... ..	7.0	3	11	12	19.90	134	51	38.1	5	0.16
250	... ..	8.5	5	11	14	7.29	146	19	32.9	5	0.13
251	... ..	8.8	5	11	18	36.99	147	0	36.2	5	0.17
252	... ..	8.5	5	11	19	41.57	149	0	12.7	5	0.14
253	... ..	7.3	5	11	20	12.01	142	55	19.9	5	0.13
254	84 Leonis τ	5.1	...	11	21	52.21	86	29	39.2	10	0.18
255	R. P. L. 81	7.0	...	11	22	41.18	4	38	37.4	20	0.57
256	... ..	9.4	5	11	26	21.37	141	48	16.9	5	0.14
257	R. P. L. 82	7.3	...	11	26	32.77	3	43	57.7	15	0.49
258	... ..	8.9	5	11	28	5.73	130	38	4.8	5	0.15
259	... ..	8.5	3	11	28	30.25	130	30	7.9	3	0.19
260	Taylor 5317	7.0	...	11	30	45.47	125	28	6.8	5	0.17
261	... ..	9.5	1	11	32	0.27	153	2	48.0	1	0.12
262	... ..	8.5	5	11	33	57.66	133	59	13.1	5	0.14
263	... ..	9.5	4	11	34	22.08	152	59	15.5	4	0.17
264	... ..	8.0	5	11	39	7.74	133	57	15.9	5	0.14
265	... ..	9.0	5	11	40	7.14	132	55	30.5	5	0.15
266	... ..	9.5	5	11	40	46.70	129	11	24.3	5	0.18
267	... ..	9.0	1	11	40	57.25	127	13	12.9	1	0.13
268	Taylor 5420	7.8	...	11	43	38.24	140	46	9.4	3	0.16
269	... ..	8.0	5	11	47	1.12	131	7	21.8	5	0.13
270	... ..	9.0	4	11	47	9.54	134	49	39.7	5	0.16
271	... ..	8.1	5	11	49	29.02	126	37	51.8	5	0.15
272	... ..	7.9	4	11	51	12.37	153	1	11.7	4	0.17
273	... ..	7.6	3	11	52	35.57	132	46	49.5	5	0.15
274	R. P. L. 87	8.0	...	11	53	28.06	2	20	55.1	1	0.85
275	8 Virginis π	4.4	...	11	54	49.56	82	43	38.8	10	0.17
276	... ..	9.2	5	11	55	23.42	151	57	9.8	5	0.17
277	... ..	8.5	3	11	58	28.20	152	55	17.5	4	0.15
278	R. P. L. 89	6.3	...	11	58	47.82	3	45	34.4	16	0.64
279	Stone 6739	7.7	...	11	59	18.50	152	19	9.1	5	0.15
280	2 Corvi ϵ	3.1	...	12	4	3.40	111	57	48.6	10	0.26

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
246	...	+ 2'5187	+ 0'0328	...	+ 19'523	+ 0'076	...	...
247	...	+ 2'6187	+ 0'0303	...	+ 19'547	+ 0'078	...	...
248	...	+ 2'6454	+ 0'0297	...	+ 19'561	+ 0'078	...	...
249	...	+ 2'7976	+ 0'0232	...	+ 19'621	+ 0'077	...	...
250	...	+ 2'6733	+ 0'0321	...	+ 19'654	+ 0'070	...	...
251	...	+ 2'7025	+ 0'0340	...	+ 19'727	+ 0'080	...	...
252	...	+ 2'6829	+ 0'0362	...	+ 19'745	+ 0'066	...	...
253	...	+ 2'7666	+ 0'0309	...	+ 19'752	+ 0'062	...	...
254	84 Leonis τ	+ 3'0800	- 0'0020	- 0'001	+ 19'777	+ 0'066	+ 0'01	1570
255	R. P. L. 81	+ 5'7402	- 0'9944	...	+ 19'789	+ 0'127	...	...
256	...	+ 2'8237	+ 0'0315	...	+ 19'839	+ 0'052	...	...
257	R. P. L. 82	+ 6'0529	- 1'3334	...	+ 19'840	+ 0'120	...	...
258	...	+ 2'9130	+ 0'0229	...	+ 19'860	+ 0'051	...	...
259	...	+ 2'9158	+ 0'0228	...	+ 19'865	+ 0'050	...	...
260	Taylor 5317	+ 2'9512	+ 0'0197	...	+ 19'891	+ 0'046	...	...
261	...	+ 2'7519	+ 0'0464	...	+ 19'905	+ 0'040	...	...
262	...	+ 2'9260	+ 0'0263	...	+ 19'924	+ 0'040	...	...
263	...	+ 2'7796	+ 0'0477	...	+ 19'928	+ 0'036	...	...
264	...	+ 2'9553	+ 0'0272	...	+ 19'971	+ 0'031	...	...
265	...	+ 2'9646	+ 0'0265	...	+ 19'978	+ 0'031	...	...
266	...	+ 2'9810	+ 0'0236	...	+ 19'983	+ 0'029	...	...
267	...	+ 2'9880	+ 0'0222	...	+ 19'984	+ 0'028	...	...
268	Taylor 5420	+ 2'9086	+ 0'0466	...	+ 20'002	+ 0'022	..	...
269	...	+ 3'0063	+ 0'0260	...	+ 20'021	+ 0'016	...	...
270	...	+ 2'9978	+ 0'0289	...	+ 20'022	+ 0'016	..	...
271	...	+ 3'0266	+ 0'0227	...	+ 20'033	+ 0'012	...	...
272	...	+ 2'9637	- 0'0559	...	+ 20'040	+ 0'009	...	...
273	...	+ 3'0322	+ 0'0265	...	+ 20'043	+ 0'006	...	...
274	R. P. L. 87	+ 4'0012	- 1'1672	...	+ 20'046	+ 0'008	...	...
275	8 Virginis π	+ 3'0761	- 0'0022	- 0'003	+ 20'048	+ 0'002	+ 0'02	1618
276	...	+ 3'0219	+ 0'0558	...	+ 20'050	0'000	...	...
277	...	+ 3'0549	+ 0'0593	...	+ 20'054	- 0'005	...	...
278	R. P. L. 89	+ 3'1791	- 0'4845	...	+ 20'054	- 0'007	...	...
279	Stone 6739	+ 3'0648	+ 0'0594	...	+ 20'055	- 0'007	...	...
280	2 Corvi ϵ	+ 3'0819	+ 0'0142	- 0'006	+ 20'052	- 0'016	- 0'002	1626

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
281	R. P. L. 90	7.7	...	12	7	33.72	2	24	42.7	9	0.90
282	15 Virginis η	4.0	...	12	13	52.12	90	0	38.9	10	0.28
283	R. P. L. 98	6.7	...	12	14	21.58	1	38	48.3	4	0.95
284	7 Corvi δ^2	3.1	...	12	23	45.63	105	51	30.7	29	0.23
285	29 Virginis γ^1	3.5	...	12	35	40.87	90	48	3.5	10	0.34
286	R. P. L. 97	7.2	...	12	37	32.58	5	42	30.1	16	0.55
287	R. P. L. 98	6.6	...	12	48	8.71	5	56	27.5	12	0.57
288	R. P. L. 99	5.6	...	12	48	16.27	5	56	46.1	4	0.74
289	12 Canum Venat. α	3.1	...	12	50	30.32	51	2	35.4	3	0.29
290	47 Virginis ϵ (<i>Vindemiatrix</i>)	3.0	...	12	56	18.21	78	24	23.2	10	0.41
291	... ..	8.0	4	13	0	24.33	127	6	36.1	5	0.21
292	R. P. L. 100	8.0	...	13	0	29.52	3	28	46.1	11	0.40
293	... ..	8.5	4	13	1	21.42	137	3	30.4	5	0.18
294	... ..	9.0	3	13	2	5.01	152	14	29.0	5	0.36
295	... ..	8.2	4	13	4	4.92	144	52	58.9	5	0.19
296	... ..	8.0	5	13	5	10.31	124	59	19.0	5	0.26
297	R. P. L. 101	7.5	...	13	7	16.80	1	43	1.7	9	0.53
298	... ..	9.0	5	13	9	22.86	145	35	32.2	5	0.18
299	Stone 7283	7.5	...	13	10	37.79	152	49	38.5	5	0.38
300	Stone 7291	7.0	...	13	11	31.00	135	8	31.3	5	0.18
301	... ..	9.5	5	13	11	56.65	135	3	41.6	5	0.28
302	... ..	8.9	4	13	15	33.66	125	4	43.0	4	0.21
303	Taylor 6163	7.0	...	13	16	51.27	137	16	21.2	5	0.28
304	... ..	8.3	...	13	17	9.66	131	17	9.6	4	0.41
305	... ..	8.5	4	13	17	39.49	148	18	5.0	5	0.20
306	R. P. L. 103	7.0	...	13	19	24.93	4	37	44.8	4	0.53
307	... ..	9.0	4	13	20	9.69	143	13	19.9	5	0.21
308	... ..	8.0	...	13	22	22.98	125	9	46.7	5	0.31
309	... ..	9.0	5	13	22	49.35	126	56	53.3	5	0.21
310	... ..	7.0	4	13	26	3.00	126	14	49.8	5	0.42
311	Taylor 6262	7.0	...	13	27	11.91	152	1	27.6	5	0.37
312	... ..	7.3	3	13	27	33.27	140	11	9.1	5	0.18
313	... ..	8.0	5	13	28	42.07	144	39	9.3	5	0.25
314	... ..	8.0	4	13	28	59.66	153	31	1.7	4	0.40
315	Taylor 6283	7.3	...	13	29	27.12	131	48	42.9	2	0.32

281.—Carrington 1816.
297.—Groombridge 2006.

283.—Groombridge 1884.
306.—Groombridge 2007.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
281	R. P. L. 90 ...	+ 2·0254	- 0·2228	...	+ 20·043	- 0·019	...	...
282	15 Virginis η ...	+ 3·0724	+ 0·0027	- 0·006	+ 20·017	- 0·035	+ 0·02	1647
283	R. P. L. 93 ...	+ 0·1603	+ 0·0329	- 0·090	+ 20·015	- 0·010	- 0·08	1672
284	7 Corvi δ^a ...	+ 3·1116	+ 0·0118	- 0·014	+ 19·946	- 0·055	+ 0·15	1675
285	29 Virginis γ^1 ...	+ 3·0752	+ 0·0043	- 0·030	+ 19·812	- 0·078	- 0·02	1698
286	R. P. L. 97 ...	+ 0·8911	+ 0·1293	...	+ 19·785	- 0·030	...	...
287	R. P. L. 98 ...	+ 0·3932	+ 0·2147	- 0·017	+ 19·613	- 0·020	- 0·02	1730
288	R. P. L. 99 ...	+ 0·3888	+ 0·2153	- 0·020	+ 19·611	- 0·020	- 0·02	1731
289	12 Canum Venat. α ...	+ 2·8360	- 0·0152	- 0·022	+ 19·569	- 0·098	- 0·07	1725
290	47 Virginis ϵ ...	+ 3·0057	- 0·0007	- 0·019	+ 19·452	- 0·114	- 0·03	1735
291	... ..	+ 3·3358	+ 0·0305	...	+ 19·361	- 0·134	...	...
292	R. P. L. 100 ...	- 2·6642	+ 1·3047	...	+ 19·359	+ 0·093	...	...
293	... ..	+ 3·4523	+ 0·0435	...	+ 19·340	- 0·140	...	...
294	... ..	+ 3·7520	+ 0·0835	...	+ 19·323	- 0·153	...	...
295	... ..	+ 3·5970	+ 0·0598	...	+ 19·275	- 0·152	...	...
296	... ..	+ 3·3348	+ 0·0288	...	+ 19·248	- 0·144	...	...
297	R. P. L. 101 ...	- 0·8315	+ 7·0682	...	+ 19·196	+ 0·407	...	...
298	... ..	+ 3·6542	+ 0·0626	...	+ 19·141	- 0·166	...	...
299	Stone 7283 ...	+ 3·8623	+ 0·0890	...	+ 19·110	- 0·178	...	...
300	Stone 7291 ...	+ 3·4840	+ 0·0417	...	+ 19·086	- 0·163	...	...
301	... ..	+ 3·4800	+ 0·0416	...	+ 19·074	- 0·164	...	...
302	... ..	+ 3·3763	+ 0·0295	...	+ 18·973	- 0·167	...	...
303	Taylor 6163 ...	+ 3·5486	+ 0·0456	...	+ 18·938	- 0·177	...	...
304	... ..	+ 3·4601	+ 0·0366	...	+ 18·928	- 0·174	...	...
305	... ..	+ 3·7918	+ 0·0725	...	+ 18·914	- 0·191	...	...
306	R. P. L. 103 ...	- 2·5353	+ 0·9282	...	+ 18·862	+ 0·118	...	...
307	... ..	+ 3·6852	+ 0·0581	...	+ 18·840	- 0·191	...	...
308	... ..	+ 3·4036	+ 0·0300	...	+ 18·772	- 0·182	...	...
309	... ..	+ 3·4278	+ 0·0318	...	+ 18·759	- 0·184	...	...
310	... ..	+ 3·4318	+ 0·0312	...	+ 18·657	- 0·191	...	...
311	Taylor 6262 ...	+ 4·0070	+ 0·0896	...	+ 18·620	- 0·224	...	...
312	... ..	+ 3·6702	+ 0·0522	...	+ 18·609	- 0·206	...	...
313	... ..	+ 3·7837	+ 0·0631	...	+ 18·571	- 0·215	...	...
314	... ..	+ 4·0891	+ 0·0980	...	+ 18·563	- 0·232	...	...
315	Taylor 6283 ...	+ 3·5274	+ 0·0881	...	+ 18·546	- 0·204	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
316	... ..	8.0	...	13	32	39.62	147	19	36.1	3	0.32
317	... ..	9.5	4	13	33	42.64	151	34	20.3	4	0.49
318	Stone 7500	7.8	...	13	34	50.36	132	34	42.2	5	0.39
319	Taylor 6338	7.0	...	13	34	57.97	132	32	59.4	5	0.39
320	... ..	8.0	4	13	35	34.69	126	46	47.7	5	0.29
321	... ..	8.3	5	13	35	43.14	126	55	23.4	5	0.27
322	Taylor 6366	7.0	...	13	38	6.68	151	51	30.7	1	0.17
323	... ..	7.0	5	13	40	50.19	126	0	54.0	5	0.42
324	4 Bootis τ	4.5	...	13	41	39.32	71	57	16.9	16	0.33
325	85 Urs. Maj. η (<i>Benetnasch</i>)	2.0	...	13	42	53.44	40	5	51.1	4	0.33
326	Stone 7574	7.8	...	13	44	8.89	152	46	15.8	5	0.26
327	Stone 7575	8.5	...	13	44	10.18	152	48	41.4	4	0.30
328	... ..	8.0	4	13	45	51.54	133	16	33.6	5	0.39
329	... ..	8.5	4	13	47	50.11	127	20	39.4	5	0.40
330	... ..	8.0	4	13	48	39.96	125	15	2.9	5	0.38
331	Stone 7649	7.8	...	13	50	18.73	136	25	52.1	5	0.44
332	Stone 7663	7.5	...	13	51	36.36	152	12	25.6	3	0.33
333	... ..	8.0	5	13	52	8.11	127	1	11.3	5	0.24
334	Taylor 6513	7.0	...	13	53	52.00	133	37	26.7	5	0.31
335	93 Virginis τ	4.3	...	13	55	38.53	87	53	1.1	10	0.46
336	... ..	8.0	4	13	57	2.90	126	42	54.2	5	0.32
337	Stone 7699	7.3	...	13	57	5.09	126	41	44.2	3	0.36
338	... ..	8.0	4	13	57	17.44	134	43	14.3	5	0.42
339	... ..	8.0	4	13	57	20.63	151	21	58.9	5	0.36
340	R. P. L. 108	7.8	...	14	1	37.11	3	40	38.2	11	0.55
341	... ..	9.6	5	14	4	28.92	130	31	34.0	5	0.32
342	... ..	9.5	4	14	4	32.43	135	48	22.5	4	0.38
343	Stone 7768	7.8	...	14	6	27.45	151	21	52.1	5	0.34
344	R Centauri, Var. ...	7.2	8	14	8	4.79	149	21	47.0	9	0.42
345	Taylor 6660	7.3	...	14	11	57.76	135	33	16.4	5	0.31
346	... ..	9.0	4	14	13	3.42	151	0	25.1	4	0.34
347	... ..	8.4	4	14	13	24.63	141	46	42.8	5	0.30
348	Stone 7826	6.9	...	14	14	4.01	156	6	16.4	3	0.49
349	Stone 7843	7.0	...	14	15	52.90	131	42	49.8	5	0.40
350	... ..	9.5	5	14	15	59.28	131	45	50.2	5	0.43

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
316	...	+ 3·8923	+ 0·0717	...	+ 18·437	- 0·230	...	...
317	...	+ 4·0542	+ 0·0890	...	+ 18·400	- 0·242	...	...
318	Stone 7500	+ 3·5663	+ 0·0396	...	+ 18·362	- 0·216	...	...
319	Taylor 6338	+ 3·5664	+ 0·0396	...	+ 18·357	- 0·217	...	...
320	...	+ 3·4771	+ 0·0323	...	+ 18·335	- 0·212	...	...
321	...	+ 3·4798	+ 0·0324	...	+ 18·330	- 0·213	...	...
322	Taylor 6366	+ 4·1093	+ 0·0909	...	+ 18·245	- 0·253	...	...
323	...	+ 3·4863	+ 0·0316	...	+ 18·144	- 0·221	...	...
324	4 Bootis τ	+ 2·8855	- 0·0007	- 0·035	+ 18·113	- 0·188	- 0·04	1810
325	85 Ursæ Majoris η	+ 2·3832	- 0·0103	- 0·012	+ 18·067	- 0·150	+ 0·01	1815
326	Stone 7574	+ 4·2128	+ 0·0970	...	+ 18·019	- 0·276	...	...
327	Stone 7575	+ 4·2140	+ 0·0973	...	+ 18·018	- 0·276	...	...
328	...	+ 3·6333	+ 0·0412	...	+ 17·953	- 0·243	...	...
329	...	+ 3·5348	+ 0·0333	...	+ 17·875	- 0·240	...	...
330	...	+ 3·5037	+ 0·0310	...	+ 17·841	- 0·240	...	...
331	Stone 7649	+ 3·7229	+ 0·0465	...	+ 17·775	- 0·258	...	...
332	Stone 7663	+ 4·2594	+ 0·0953	...	+ 17·722	- 0·297	...	...
333	...	+ 3·5461	+ 0·0330	...	+ 17·701	- 0·250	...	...
334	Taylor 6513	+ 3·6796	+ 0·0419	...	+ 17·630	- 0·263	...	...
335	93 Virginis τ	+ 3·0484	+ 0·0064	- 0·001	+ 17·555	- 0·222	+ 0·03	1829
336	...	+ 3·5593	+ 0·0328	...	+ 17·495	- 0·261	...	...
337	Stone 7699	+ 3·5594	+ 0·0328	...	+ 17·494	- 0·261	...	...
338	...	+ 3·7207	+ 0·0438	...	+ 17·485	- 0·273	...	...
339	...	+ 4·2697	+ 0·0918	...	+ 17·482	- 0·312	...	...
340	R. P. L. 108	- 7·4560	+ 2·3588	...	+ 17·296	- 0·543	...	...
341	...	+ 3·6630	+ 0·0375	...	+ 17·168	- 0·282	...	...
342	...	+ 3·7833	+ 0·0457	...	+ 17·164	- 0·291	...	...
343	Stone 7768	+ 4·3558	+ 0·0926	...	+ 17·078	- 0·338	...	...
344	R Centauri	+ 4·2691	+ 0·0831	...	+ 17·008	- 0·336	...	...
345	Taylor 6660	+ 3·8145	+ 0·0454	...	+ 16·821	- 0·309	...	...
346	...	+ 4·3956	+ 0·0910	...	+ 16·768	- 0·357	...	...
347	...	+ 4·0057	+ 0·0583	...	+ 16·751	- 0·325	...	...
348	Stone 7826	+ 4·7386	+ 0·1241	...	+ 16·719	- 0·387	...	...
349	Stone 7843	+ 3·7382	+ 0·0392	...	+ 16·631	- 0·311	...	...
350	...	+ 3·7399	+ 0·0393	...	+ 16·626	- 0·311	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
351	Stone 7847 ...	8.0	...	14	16	21.78	131	44	55.7	5	0.42
352	Stone 7876 ...	7.5	...	14	19	55.52	135	40	50.4	6	0.37
353	Stone 7877 ...	7.8	...	14	20	1.07	135	40	9.1	4	0.41
354	22 Bootis f ...	5.4	...	14	20	58.05	70	14	31.1	14	0.35
355	... ..	7.0	2	14	21	15.05	150	19	17.8	2	0.40
356	Stone 7897 ...	7.3	...	14	23	4.07	129	56	56.1	1	0.49
357	... ..	7.5	2	14	24	57.78	148	17	54.0	5	0.39
358	25 Bootis p ...	3.6	...	14	26	44.62	59	6	36.4	2	0.26
359	Taylor 6793 ...	8.0	...	14	27	41.26	126	41	8.5	5	0.40
360	... ..	7.2	5	14	28	23.79	126	2	1.4	6	0.35
361	... ..	8.9	4	14	28	55.06	149	14	57.2	5	0.33
362	Stone 7947 ...	7.1	...	14	29	26.03	157	41	24.2	3	0.49
363	Stone 7969 ...	7.8	...	14	32	13.24	129	3	12.9	5	0.44
364	... ..	8.5	...	14	35	23.47	151	25	29.9	4	0.41
365	Taylor 6860 ...	8.3	...	14	35	39.49	136	7	4.4	5	0.35
366	... ..	8.0	...	14	37	17.20	134	9	46.8	5	0.40
367	... ..	9.3	5	14	37	41.01	132	14	21.3	5	0.33
368	... ..	8.5	...	14	38	43.04	128	6	14.3	4	0.48
369	36 Bootis e ³ (Mirac) ...	2.6	...	14	39	49.96	62	25	40.1	10	0.45
370	... ..	8.1	4	14	42	52.01	135	48	9.7	4	0.43
371	... ..	8.8	5	14	46	10.50	150	2	6.8	5	0.32
372	Stone 8098 ...	7.5	...	14	46	16.18	129	15	48.5	5	0.35
373	... ..	7.5	2	14	47	1.61	131	33	41.0	2	0.48
374	Stone 8107 ...	7.8	...	14	47	3.30	128	51	46.1	5	0.37
375	Stone 8109 ...	7.8	...	14	47	7.95	128	49	31.7	4	0.41
376	... ..	7.5	1	14	48	6.24	126	40	48.1	1	0.49
377	Taylor 6956 ...	6.7	...	14	49	5.29	128	56	11.2	3	0.45
378	7 Ursæ Minoris β ...	2.1	...	14	51	3.65	15	21	44.2	4	0.47
379	Stone 8154 ...	7.3	...	14	51	35.11	149	20	18.1	5	0.35
380	R. P. L. 110 ...	7.0	...	14	53	4.62	3	33	46.7	16	0.62
381	... ..	8.0	2	14	53	25.73	131	49	5.2	2	0.49
382	... ..	7.5	5	14	53	54.87	131	21	16.0	5	0.44
383	... ..	9.0	3	14	54	3.88	147	45	41.1	5	0.36
384	... ..	7.0	5	14	54	7.93	131	20	56.9	5	0.45
385	T Trianguli Aust., Var. ...	7.2	3	14	58	46.22	158	15	55.2	4	0.36

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
351	Stone 7847 ...	+ 3.7412	+ 0.0393	...	+ 16.607	- 0.312	...	...
352	Stone 7876 ...	+ 3.8572	+ 0.0456	...	+ 16.431	- 0.328	...	...
353	Stone 7877 ...	+ 3.8574	+ 0.0456	...	+ 16.426	- 0.329	...	...
354	22 Bootis <i>f</i> ...	+ 2.7953	+ 0.0009	- 0.006	+ 16.378	- 0.242	- 0.03	1864
355	... ..	+ 4.4283	+ 0.0878	...	+ 16.362	- 0.379	...	...
356	Stone 7897 ...	+ 3.7268	+ 0.0367	...	+ 16.271	- 0.324	...	...
357	... ..	+ 4.3519	+ 0.0790	...	+ 16.174	- 0.381	...	...
358	25 Bootis <i>p</i> ...	+ 2.5945	- 0.0015	- 0.009	+ 16.082	- 0.233	- 0.13	1869
359	Taylor 6793 ...	+ 3.6707	+ 0.0325	...	+ 16.033	- 0.328	...	...
360	... ..	+ 3.6589	+ 0.0317	...	+ 15.995	- 0.328	...	...
361	... ..	+ 4.4318	+ 0.0828	...	+ 15.967	- 0.396	...	...
362	Stone 7947 ...	+ 5.0493	+ 0.1394	...	+ 15.940	- 0.452	...	...
363	Stone 7969 ...	+ 3.7410	+ 0.0352	...	+ 15.791	- 0.342	...	...
364	... ..	+ 4.6120	+ 0.0930	...	+ 15.618	- 0.427	...	...
365	Taylor 6860 ...	+ 3.9456	+ 0.0457	...	+ 15.603	- 0.367	...	...
366	... ..	+ 3.8951	+ 0.0423	...	+ 15.513	- 0.366	...	...
367	... ..	+ 3.8432	+ 0.0394	...	+ 15.492	- 0.362	...	...
368	... ..	+ 3.7418	+ 0.0339	...	+ 15.434	- 0.354	...	...
369	36 Bootis <i>e</i> ³ ...	+ 2.6240	- 0.0001	- 0.004	+ 15.371	- 0.252	- 0.00	1890
370	... ..	+ 3.9692	- 0.0448	...	+ 15.200	- 0.384	...	...
371	... ..	+ 4.6102	+ 0.0852	...	+ 15.009	- 0.450	...	...
372	Stone 8098 ...	+ 3.7974	+ 0.0348	...	+ 15.005	- 0.372	...	...
373	... ..	+ 3.8618	+ 0.0379	...	+ 14.960	- 0.380	...	...
374	Stone 8107 ...	+ 3.7899	+ 0.0314	...	+ 14.959	- 0.373	...	...
375	Stone 8109 ...	+ 3.7892	+ 0.0313	...	+ 14.954	- 0.373	...	...
376	... ..	+ 3.7390	+ 0.0319	...	+ 14.897	- 0.370	...	...
377	Taylor 6956 ...	+ 3.7989	+ 0.0344	...	+ 14.839	- 0.378	...	...
378	7 Ursæ Minoris <i>β</i> ...	- 0.2316	+ 0.1022	- 0.008	+ 14.722	+ 0.018	+ 0.01	1917
379	Stone 8154 ...	+ 4.6072	+ 0.0814	...	+ 14.691	- 0.462	...	...
380	R. P. L. 119 ...	- 11.6444	+ 3.0119	...	+ 14.602	+ 1.158	...	...
381	... ..	+ 3.8834	+ 0.0378	...	+ 14.580	- 0.395	...	...
382	... ..	+ 3.8820	+ 0.0372	...	+ 14.551	- 0.395	...	...
383	... ..	+ 4.5319	+ 0.0747	...	+ 14.543	- 0.460	...	...
384	... ..	+ 3.8826	+ 0.0372	...	+ 14.538	- 0.395	...	...
385	T Trianguli Australis.	+ 5.4309	+ 0.1423	...	+ 14.256	- 0.561	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
386	Taylor 7027	6·8	...	14	58	49·23	125	48	17·8	4	0·47
387	... ..	9·0	1	14	58	52·60	131	34	57·9	1	0·32
388	... ..	9·0	2	15	0	39·41	126	5	51·7	5	0·36
389	Stone 8238	7·0	...	15	2	43·37	152	35	3·7	5	0·39
390	R. P. L. 111	7·0	...	15	3	40·93	5	35	34·1	3	0·54
391	... ..	9·0	4	15	5	39·65	152	52	25·7	5	0·38
392	27 Libræ β	2·7	...	15	10	39·44	98	56	47·6	10	0·48
393	Stone 8318	7·8	...	15	11	16·92	132	0	14·9	5	0·37
394	... ..	9·0	3	15	12	19·70	153	41	59·7	5	0·34
395	... ..	8·5	2	15	12	52·12	129	24	7·5	5	0·37
396	R. P. L. 114	6·9	...	15	15	43·60	2	18	55·0	7	0·46
397	... ..	9·5	4	15	21	2·01	153	41	6·8	5	0·36
398	... ..	9·0	4	15	21	4·99	151	16	21·2	5	0·35
399	... ..	8·0	1	15	23	55·31	133	15	37·6	5	0·36
400	... ..	7·3	3	15	26	53·52	133	25	13·1	5	0·39
401	... ..	8·0	...	15	28	5·10	143	23	40·9	5	0·33
402	... ..	9·3	3	15	29	22·13	155	16	22·2	5	0·35
403	... ..	8·0	...	15	31	49·12	133	13	52·7	5	0·37
404	Stone 8520	6·9	...	15	34	8·59	149	54	30·9	5	0·39
405	Stone 8549	6·1	...	15	37	8·48	155	4	15·0	5	0·38
406	... ..	9·4	2	15	37	25·78	155	8	34·7	2	0·34
407	24 Serpentis α	2·7	...	15	38	27·32	83	12	7·0	10	0·51
408	Taylor 7350	6·6	...	15	42	0·59	135	2	18·1	5	0·41
409	... ..	9·0	5	15	44	21·28	134	47	26·3	5	0·47
410	37 Serpentis ϵ	3·7	...	15	44	56·06	85	9	58·8	20	0·38
411	R. P. L. 115	7·0	...	15	45	33·97	4	47	13·2	6	0·65
412	... ..	6·5	5	15	47	59·13	130	26	12·2	5	0·43
413	Taylor 7401	6·9	...	15	50	12·24	133	44	11·5	4	0·39
414	Stone 8746	7·3	...	15	58	51·99	135	1	31·3	5	0·36
415	R. P. L. 116	7·0	...	16	0	59·27	4	21	40·2	3	0·40
416	R. P. L. 117	7·2	...	16	3	22·80	6	2	30·1	7	0·42
417	... ..	7·0	5	16	4	10·49	125	17	45·0	5	0·43
418	... ..	7·0	3	16	4	57·32	133	46	3·6	3	0·54
419	... ..	8·5	2	16	6	1·75	125	29	39·0	2	0·47
420	Taylor 7532	6·6	...	16	7	11·87	132	35	58·5	5	0·37

411.—Carrington 2380.

415.—Carrington 2423.

416.—Carrington 2424.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Procession.	Secular Variation.	Proper Motion.	Annual Procession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
386	Taylor 7027 ...	+ 3.7507	+ 0.0302	...	+ 14.253	- 0.390	...	...
387	... ..	+ 3.9070	+ 0.0371	...	+ 14.249	- 0.405	...	...
388	... ..	+ 3.7635	+ 0.0303	...	+ 14.140	- 0.394	...	...
389	Stone 8238 ...	+ 4.9163	+ 0.0961	...	+ 14.011	- 0.517	...	...
390	R. P. L. 111 ...	- 6.7355	+ 1.1555	...	+ 13.951	+ 0.700	...	...
391	... ..	+ 4.9626	+ 0.0972	...	+ 13.826	- 0.528	...	...
392	27 Librae β ...	+ 3.2279	+ 0.0117	- 0.008	+ 13.505	- 0.353	+ 0.02	1934
393	Stone 8318 ...	+ 3.9646	+ 0.0365	...	+ 13.466	- 0.433	...	...
394	... ..	+ 5.0850	+ 0.1007	...	+ 13.397	- 0.556	...	...
395	.. ...	+ 3.8912	+ 0.0330	...	+ 13.362	- 0.428	...	...
396	R. P. L. 114 ...	- 21.8577	+ 7.4101	...	+ 13.173	+ 2.397	...	...
397	... ..	+ 5.1510	+ 0.0983	...	+ 12.821	- 0.582	...	...
398	... ..	+ 4.9481	+ 0.0848	...	+ 12.818	- 0.559	...	...
399	... ..	+ 4.0198	+ 0.0369	...	+ 12.626	- 0.463	...	...
400	... ..	+ 4.0655	+ 0.0367	...	+ 12.422	- 0.472	...	...
401	... ..	+ 4.7851	+ 0.0708	...	+ 12.340	- 0.554	...	...
402	... ..	+ 5.3706	+ 0.1061	...	+ 12.249	- 0.623	...	...
403	... ..	+ 4.0754	+ 0.0355	...	+ 12.082	- 0.478	...	...
404	Stone 8520 ...	+ 4.9279	+ 0.0750	...	+ 11.918	- 0.581	...	...
405	Stone 8549 ...	+ 5.4078	+ 0.1017	...	+ 11.706	- 0.643	...	...
406	... ..	+ 5.4177	+ 0.1022	...	+ 11.686	- 0.645	...	...
407	24 Serpentis α ...	+ 2.9424	+ 0.0062	+ 0.008	+ 11.613	- 0.354	- 0.06	1990
408	Taylor 7350 ...	+ 4.1756	+ 0.0367	...	+ 11.359	- 0.506	...	...
409	... ..	+ 4.1737	+ 0.0359	...	+ 11.188	- 0.509	...	...
410	37 Serpentis ϵ ...	+ 2.9784	+ 0.0066	+ 0.007	+ 11.146	- 0.365	- 0.06	2005
411	R. P. L. 115 ...	- 10.2238	+ 1.5251	...	+ 11.100	+ 1.237	...	...
412	... ..	+ 4.0278	+ 0.0300	...	+ 10.923	- 0.497	...	...
413	Taylor 7401 ...	+ 4.1517	+ 0.0335	...	+ 10.760	- 0.515	...	...
414	Stone 8746 ...	+ 4.2278	+ 0.0335	...	+ 10.113	- 0.535	...	...
415	R. P. L. 116 ...	- 12.1477	+ 1.7456	...	+ 9.952	+ 1.534	...	...
416	R. P. L. 117 ...	- 7.9597	+ 0.8621	...	+ 9.770	+ 1.010	...	...
417	... ..	+ 3.9004	+ 0.0228	...	+ 9.709	- 0.501	...	...
418	.. ...	+ 4.1949	+ 0.0307	...	+ 9.649	- 0.539	...	...
419	.. ...	+ 3.9103	+ 0.0227	...	+ 9.567	- 0.505	...	...
420	Taylor 7532 ...	+ 4.1557	+ 0.0290	...	+ 9.477	- 0.537	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
421*	Stone 8832	8.0	...	16	7	52.61	135	5	21.5	3	0.43
422	.. ..	8.0	1	16	8	10.34	135	14	47.3	1	0.40
423	Stone 8853... ..	7.6	...	16	10	33.63	124	37	22.0	2	0.56
424	... ..	9.0	5	16	11	10.64	130	31	47.5	5	0.52
425	Stone 8892... ..	6.6	...	16	14	39.33	152	50	55.1	1	0.48
426	Taylor 7597	8.0	...	16	16	1.84	128	54	54.7	5	0.54
427	20 Heronlis γ	3.8	...	16	16	42.82	70	34	8.2	20	0.41
428	... ..	8.5	1	16	18	2.13	130	57	10.6	1	0.56
429	21 Coronæ Borealis ν^3	5.0	...	16	18	2.30	56	1	16.0	3	0.47
430	21 Scorpil α (Antares)	1.1	...	16	22	10.44	116	10	6.5	7	0.47
431	... ..	7.1	4	16	22	28.16	127	42	42.3	5	0.46
432	... ..	8.0	1	16	23	28.41	136	25	11.7	1	0.41
433	... ..	7.5	3	16	23	34.72	128	44	35.1	3	0.49
434	Stone 8976	7.3	...	16	25	21.60	123	16	39.5	2	0.44
435	Taylor 7680	7.5	...	16	28	52.92	125	40	22.2	5	0.46
436	... ..	9.5	2	16	28	58.88	125	32	30.1	2	0.39
437	Stone 9014	7.3	...	16	30	29.30	128	54	42.2	4	0.60
438	13 Ophiuchi ζ	2.8	...	16	30	39.69	100	19	36.5	12	0.44
439	... ..	7.0	5	16	31	58.95	134	20	19.3	5	0.47
440	... ..	7.0	3	16	36	13.06	128	43	3.3	5	0.59
441	... ..	7.5	4	16	38	13.20	129	3	13.5	4	0.49
442	Stone 9094	6.0	...	16	38	43.03	129	9	29.6	5	0.44
443	... ..	8.0	1	16	38	47.09	125	34	20.9	2	0.58
444	... ..	...	...	16	41	11.36	126	18	14.7	1	0.39
445	... ..	7.0	3	16	41	33.70	132	53	46.8	4	0.52
446	... ..	8.0	2	16	42	25.28	127	50	24.5	2	0.60
447	Taylor 7793	7.0	...	16	44	38.10	127	23	51.3	4	0.56
448	Taylor 7821	7.0	...	16	47	31.10	129	18	43.7	3	0.42
449	... ..	8.5	1	16	48	56.72	132	12	51.0	3	0.47
450	... ..	7.5	...	16	50	8.10	124	13	8.2	3	0.63
451	.. ..	8.5	1	16	50	16.23	128	26	11.8	1	0.45
452	Stone 9263	7.5	...	16	55	11.85	129	54	51.6	5	0.54
453	Taylor 7899	7.0	...	16	57	46.61	126	34	27.6	5	0.62
454	22 Ursæ Minoris ϵ	4.5	...	16	58	6.49	7	46	13.4	6	0.36
455	... ..	9.0	4	16	59	19.04	132	35	31.9	4	0.51

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
421	Stone 8832 ...	+ 4.2561	+ 0.0318	...	+ 9.424	- 0.551	...	...
422	... ..	+ 4.2634	+ 0.0319	...	+ 9.401	- 0.552	...	...
423	Stone 8853 ...	+ 3.8022	+ 0.0214	...	+ 9.217	- 0.507	...	...
424	... ..	+ 4.0880	+ 0.0203	...	+ 9.169	- 0.534	...	...
425	Stone 8892 ...	+ 5.4085	+ 0.0715	...	+ 8.895	- 0.709	...	...
426	Taylor 7597 ...	+ 4.0425	+ 0.0240	...	+ 8.789	- 0.533	...	...
427	20 Herculis γ ...	+ 2.6478	+ 0.0038	- 0.005	+ 8.735	- 0.351	- 0.05	2084
428	... ..	+ 4.1196	+ 0.0254	...	+ 8.032	- 0.545	...	...
429	21 Coronae Borealis ν^2 ...	+ 2.2590	+ 0.0032	...	+ 8.631	- 0.301	...	...
430	21 Scorpii α ...	+ 3.6704	+ 0.0150	- 0.002	+ 8.303	- 0.491	+ 0.03	2091
431	... ..	+ 4.0138	+ 0.0218	...	+ 8.278	- 0.537	...	...
432	... ..	+ 4.3545	+ 0.0209	...	+ 8.198	- 0.583	...	...
433	... ..	+ 4.0515	+ 0.0225	...	+ 8.192	- 0.543	...	...
434	Stone 8976 ...	+ 3.8760	+ 0.0185	...	+ 8.047	- 0.520	...	...
435	Taylor 7680 ...	+ 3.9572	+ 0.0193	...	+ 7.765	- 0.534	...	...
436	... ..	+ 3.9530	+ 0.0192	...	+ 7.757	- 0.534	...	...
437	Stone 9014 ...	+ 4.0703	+ 0.0218	...	+ 7.634	- 0.551	...	...
438	13 Ophiuchi ζ ...	+ 3.2976	+ 0.0087	- 0.001	+ 7.621	- 0.447	- 0.04	2109
439	... ..	+ 4.2836	+ 0.0256	...	+ 7.513	- 0.581	...	...
440	... ..	+ 4.0733	+ 0.0200	...	+ 7.169	- 0.557	...	...
441	... ..	+ 4.0887	+ 0.0198	...	+ 7.005	- 0.561	...	...
442	Stone 9094 ...	+ 4.0933	+ 0.0199	...	+ 6.964	- 0.562	...	...
443	... ..	+ 3.9691	+ 0.0175	...	+ 6.958	- 0.547	...	...
444	... ..	+ 3.9070	+ 0.0176	...	+ 6.760	- 0.551	...	...
445	... ..	+ 4.2424	+ 0.0220	...	+ 6.730	- 0.585	...	...
446	... ..	+ 4.0519	+ 0.0182	...	+ 6.659	- 0.560	...	...
447	Taylor 7793 ...	+ 4.0396	+ 0.0175	...	+ 6.476	- 0.560	...	...
448	Taylor 7821 ...	+ 4.1128	+ 0.0181	...	+ 6.237	- 0.572	...	...
449	... ..	+ 4.2273	+ 0.0197	...	+ 6.118	- 0.590	...	...
450	... ..	+ 3.9397	+ 0.0149	...	+ 6.019	- 0.550	...	...
451	... ..	+ 4.0846	+ 0.0171	...	+ 6.008	- 0.571	...	...
452	Stone 9263 ...	+ 4.1463	+ 0.0168	...	+ 5.595	- 0.582	...	...
453	Taylor 7899 ...	+ 4.0279	+ 0.0145	...	+ 5.378	- 0.567	...	...
454	22 Ursae Minoris ϵ ...	- 6.3700	+ 0.3100	+ 0.009	+ 5.350	+ 0.893	+ 0.00	2201
455	... ..	+ 4.2585	+ 0.0175	...	+ 5.248	- 0.601	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
456	R. P. L. 113	8.0	...	17	2	12.14	5	8	30.4	4	0.56
457	Stone 9348	6.8	...	17	4	10.20	128	40	25.0	5	0.56
458	... ..	8.5	...	17	6	11.85	131	19	58.9	3	0.59
459	Stone 9389	8.0	...	17	8	55.65	129	17	42.5	3	0.61
460	Stone 9428	7.0	...	17	12	12.66	155	34	58.1	3	0.63
461	Stone 9431	7.5	...	17	12	39.21	127	53	43.2	5	0.59
462	... ..	7.5	1	17	14	34.43	131	58	15.4	1	0.49
463	Stone 9448	7.3	...	17	14	37.35	128	4	59.6	1	0.56
464	49 Ophiuchi σ	4.4	...	17	20	39.62	85	45	21.4	17	0.57
465	Lacaille 7320	7.5	...	17	24	32.60	135	25	19.3	1	0.64
466	Lacaille 7329	7.5	...	17	25	31.87	134	55	11.2	2	0.63
467	Lacaille 7346	7.3	...	17	28	3.02	134	48	0.3	1	0.63
468	... ..	7.3	2	17	28	3.29	134	29	8.4	4	0.60
469	55 Ophiuchi α	2.2	...	17	29	27.34	77	21	10.8	5	0.53
470	R. P. L. 120	7.3	...	17	31	57.65	5	17	21.2	3	0.57
471	Brisbane 6151	7.8	...	17	32	0.09	134	36	15.5	3	0.61
472	Lacaille 7400	7.5	...	17	35	58.28	135	59	10.9	1	0.66
473	60 Ophiuchi β	2.9	...	17	37	38.55	85	22	56.6	10	0.60
474	Stone 9699	7.5	...	17	41	34.69	125	20	11.5	5	0.63
475	λ Scorpii	5.6	...	17	41	55.81	130	3	2.2	1	0.40
476	... ..	8.5	...	17	47	36.30	128	39	12.9	5	0.60
477	Stone 9776	7.0	...	17	49	59.39	125	59	23.6	5	0.58
478	... ..	8.3	2	17	50	23.23	151	21	10.9	2	0.61
479	... ..	8.7	5	17	55	12.30	126	32	32.5	5	0.60
480	... ..	8.5	1	17	56	32.26	128	56	59.8	4	0.62
481	72 Ophiuchi	3.8	...	18	1	45.24	80	27	6.7	21	0.60
482	... ..	8.5	1	18	5	46.39	133	7	13.2	1	0.64
483	Stone 9922	8.5	...	18	5	40.31	133	10	57.0	1	0.71
484	... ..	8.5	1	18	9	0.91	131	16	21.2	1	0.66
485	... ..	8.0	2	18	10	17.16	126	23	40.2	4	0.62
486	23 Ursæ Minoris δ	4.3	...	18	10	23.35	3	23	27.3	5	0.39
487	24 Ursæ Minoris	5.9	...	18	14	27.72	3	0	39.6	5	0.25
488	58 Serpentis η	3.4	...	18	15	12.21	92	55	42.2	8	0.58
489	... ..	8.0	...	18	15	37.93	138	50	56.0	1	0.64
490	... ..	8.0	4	18	16	28.95	127	17	7.7	4	0.63

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
456	R. P. L. 118 ...	- 11°3153	+ 0°7042	...	+ 5°004	+ 1°595	...	...
457	Stone 9348 ...	+ 4°1108	+ 0°0143	...	+ 4°836	- 0°583	...	...
458	... ..	+ 4°2159	+ 0°0150	...	+ 4°665	- 0°600	...	...
459	Stone 9389 ...	+ 4°1393	+ 0°0134	...	+ 4°431	- 0°590	...	...
460	Stone 9428 ...	+ 5°9534	+ 0°0431	...	+ 4°151	- 0°851	...	...
461	Stone 9431 ...	+ 4°0908	+ 0°0121	...	+ 4°113	- 0°586	...	...
462	... ..	+ 4°2513	+ 0°0134	...	+ 3°948	- 0°609	...	...
463	Stone 9448 ...	+ 4°0905	+ 0°0118	...	+ 3°944	- 0°588	...	...
464	49 Ophiuchi σ ...	+ 2°9746	+ 0°0037	- 0°002	+ 3°425	- 0°428	- 0°02	2206
465	Lacaille 7320 ...	+ 4°4128	+ 0°0122	...	+ 3°090	- 0°636	...	...
466	Lacaille 7329 ...	+ 4°3904	+ 0°0117	...	+ 3°004	- 0°634	...	...
467	Lacaille 7346 ...	+ 4°3870	+ 0°0109	...	+ 2°786	- 0°634	...	...
468	... ..	+ 4°3727	+ 0°0108	...	+ 2°785	- 0°632	...	...
469	55 Ophiuchi α ...	+ 2°7750	+ 0°0030	+ 0°007	+ 2°665	- 0°402	+ 0°22	2218
470	R. P. L. 120 ...	- 11°2606	+ 0°3378	...	+ 2°447	+ 1°629	...	...
471	Brisbane 6151 ...	+ 4°3811	+ 0°0097	...	+ 2°443	- 0°635	...	...
472	Lacaille 7400 ...	+ 4°4484	+ 0°0090	...	+ 2°099	- 0°646	...	...
473	60 Ophiuchi β ...	+ 2°9649	+ 0°0030	- 0°004	+ 1°953	- 0°431	- 0°17	2220
474	Stone 9699 ...	+ 4°0172	+ 0°0054	...	+ 1°610	- 0°585	...	...
475	1 ^a Scorpii ...	+ 4°1926	+ 0°0059	...	+ 1°579	- 0°610	...	...
476	... ..	+ 4°1401	+ 0°0044	...	+ 1°084	- 0°603	...	...
477	Stone 9776 ...	+ 4°0423	+ 0°0037	...	+ 0°876	- 0°589	...	...
478	... ..	+ 5°5174	+ 0°0077	...	+ 0°841	- 0°804	...	...
479	... ..	+ 4°0629	+ 0°0027	...	+ 0°420	- 0°592	...	...
480	... ..	+ 4°1529	+ 0°0024	...	+ 0°303	- 0°605	...	...
481	72 Ophiuchi ...	+ 2°8474	+ 0°0019	- 0°006	- 0°153	- 0°415	- 0°09	2275
482	... ..	+ 4°3239	- 0°0001	...	- 0°505	- 0°630	...	...
483	Stone 9922 ...	+ 4°3206	- 0°0001	...	- 0°509	- 0°631	...	...
484	... ..	+ 4°2447	- 0°0008	...	- 0°789	- 0°619	...	...
485	... ..	+ 4°0568	- 0°0006	...	- 0°899	- 0°591	...	...
486	23 Ursæ Minoris δ ...	- 19°4679	- 0°3015	+ 0°026	- 0°909	+ 2°836	- 0°04	2395
487	24 Ursæ Minoris ...	- 22°2917	- 0°5435	+ 0°067	- 1°265	+ 3°243	+ 0°02	2417
488	58 Serpentis η ...	+ 3°1405	+ 0°0010	- 0°040	- 1°330	- 0°456	+ 0°68	2298
489	... ..	+ 4°5985	- 0°0042	...	- 1°867	- 0°668	...	...
490	... ..	+ 4°0877	- 0°0020	...	- 1°441	- 0°594	...	...

Mean Positions of Stars for 1882, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
491	Stone 10028 ...	6.8	...	18	18	6.05	124	0	31.2	5	0.59
492	22 Sagittarii λ ...	3.1	...	18	20	41.32	115	29	5.1	14	0.64
493	Lalande 34128 ...	5.7	...	18	22	12.79	83	52	37.4	1	0.62
494	... ..	8.0	2	18	25	39.71	126	53	26.6	4	0.60
495	Stone 10116 ...	6.9	...	18	28	35.07	137	10	5.2	5	0.69
496	Stone 10154 ...	8.0	...	18	32	7.95	134	16	36.6	3	0.68
497	δ Lyrae α (<i>Vega</i>) ...	0.2	...	18	32	56.45	51	19	30.1	5	0.64
498	Stone 10175 ..	7.0	...	18	34	42.92	129	23	47.3	4	0.58
499	Stone 10182 ...	6.8	..	18	36	8.90	126	40	53.0	5	0.64
500	Taylor 8615 ...	5.5	...	18	39	29.71	130	31	48.5	5	0.66
501	Stone 10216 ...	7.3	...	18	40	6.94	129	43	44.1	5	0.64
502	... ..	8.0	...	18	43	5.66	127	22	56.2	4	0.65
503	... ..	8.0	4	18	46	25.13	130	43	26.1	5	0.67
504	... ..	8.7	3	18	47	2.22	125	52	31.5	4	0.69
505	... ..	8.0	1	18	47	3.61	126	39	42.2	1	0.64
506	Stone 10307 ...	7.3	...	18	50	40.57	124	22	11.4	5	0.60
507	ϵ Coronae Australis ...	5.3	...	18	50	45.99	127	15	34.9	1	0.55
508	R. P. L. 131 ...	6.5	...	18	53	21.46	3	26	35.7	5	0.22
509	Stone 10334 ...	6.9	...	18	53	47.86	132	4	28.2	5	0.63
510	13 Aquilae ϵ ...	4.1	...	18	54	15.94	75	5	27.5	10	0.66
511	Stone 10354 ...	7.8	...	18	55	55.95	128	14	9.4	5	0.70
512	... ..	6.8	...	18	58	53.46	127	58	37.7	5	0.59
513	β Coronae Australis ...	4.1	...	19	1	54.85	129	31	35.5	1	0.55
514	... ..	8.0	4	19	3	16.72	136	20	5.3	5	0.67
515	... ..	8.3	5	19	3	30.39	135	29	25.0	5	0.70
516	... ..	8.5	...	19	4	5.94	135	27	45.4	2	0.73
517	... ..	8.5	3	19	4	59.10	133	10	50.8	4	0.68
518	Stone 10425 ...	7.3	...	19	5	4.06	128	52	32.4	5	0.59
519	Stone 10432 ...	6.3	...	19	6	4.53	135	23	27.5	3	0.72
520	... ..	7.5	3	19	7	37.88	129	24	9.7	3	0.69
521	... ..	7.0	2	19	10	30.10	136	14	8.1	4	0.66
522	... ..	8.5	5	19	16	11.61	126	9	54.9	5	0.69
523	Stone 10506 ...	7.0	...	19	16	29.27	134	25	15.9	5	0.63
524	... ..	8.5	2	19	17	2.64	130	4	42.5	3	0.75
525	Stone 10513 ...	7.0	...	19	18	2.12	136	48	35.6	5	0.67

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
491	Stone 10028 ...	+ 3·9716	- 0·0019	...	- 1·581	- 0·577	...	...
492	22 Sagittarii λ	+ 3·7070	- 0·0013	- 0·005	- 1·807	- 0·537	+ 0·20	2310
493	Lalande 34128	+ 2·9298	+ 0·0011	...	- 1·941	- 0·424	...	...
494	... ..	+ 4·0695	- 0·0040	...	- 2·240	- 0·580	...	...
495	Stone 10116 ...	+ 4·5033	- 0·0079	...	- 2·405	- 0·651	...	...
496	Stone 10154 ...	+ 4·3631	- 0·0079	...	- 2·803	- 0·630	...	...
497	3 Lyræ α	+ 2·0133	+ 0·0016	+ 0·017	- 2·872	- 0·290	- 0·30	2341
498	Stone 10175 ...	+ 4·1577	- 0·0067	...	- 3·026	- 0·599	...	...
499	Stone 10182 ...	+ 4·0612	- 0·0062	...	- 3·151	- 0·584	...	...
500	Taylor 8615 ...	+ 4·1985	- 0·0083	...	- 3·438	- 0·602	...	...
501	Stone 10216 ...	+ 4·1664	+ 0·0081	...	- 3·493	- 0·598	...	...
502	... ..	+ 4·0758	- 0·0078	...	- 3·749	- 0·582	...	...
503	... ..	+ 4·1997	- 0·0100	...	- 4·034	- 0·598	...	...
504	... ..	+ 4·0189	- 0·0081	...	- 4·087	- 0·572	...	...
505	... ..	+ 4·0466	- 0·0084	...	- 4·088	- 0·576	...	...
506	Stone 10307 ...	+ 3·9644	- 0·0083	...	- 4·398	- 0·562	...	...
507	ε Coronæ Australis ...	+ 4·0644	- 0·0094	...	- 4·405	- 0·577	...	...
508	R. P. L. 131 ...	- 18·5466	- 1·4891	...	- 4·627	+ 2·633	...	...
509	Stone 10334 ...	+ 4·2461	- 0·0125	...	- 4·664	- 0·601	...	...
510	13 Aquilæ ε ...	+ 2·7263	+ 0·0004	- 0·005	- 4·704	- 0·385	+ 0·08	2390
511	Stone 10354 ...	+ 4·0346	- 0·0109	...	- 4·845	- 0·578	...	...
512	... ..	+ 4·0817	- 0·0114	...	- 5·097	- 0·574	...	...
513	β Coronæ Australis...	+ 4·1354	- 0·0130	- 0·005	- 5·350	- 0·579	+ 0·07	Stone
514	... ..	+ 4·4199	- 0·0180	...	- 5·467	- 0·619	...	...
515	... ..	+ 4·3805	- 0·0170	...	- 5·488	- 0·613	...	...
516	... ..	+ 4·3782	- 0·0176	...	- 5·535	- 0·612	...	...
517	... ..	+ 4·2768	- 0·0159	...	- 5·611	- 0·597	...	...
518	Stone 10425 ...	+ 4·1070	- 0·0132	...	- 5·617	- 0·573	...	...
519	Stone 10432 ...	+ 4·3717	- 0·0179	...	- 5·702	- 0·610	...	...
520	... ..	+ 4·1232	- 0·0141	...	- 5·831	- 0·574	...	...
521	... ..	+ 4·4027	- 0·0200	...	- 6·072	- 0·609	...	...
522	... ..	+ 3·9960	- 0·0138	...	- 6·544	- 0·548	...	...
523	Stone 10506 ...	+ 4·3102	- 0·0198	...	- 6·570	- 0·592	...	...
524	... ..	+ 4·1343	- 0·0166	...	- 6·616	- 0·567	...	...
525	Stone 10513 ...	+ 4·4147	- 0·0226	...	- 6·696	- 0·605	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
526	Stone 10542 ...	7.5	...	19	23	30.53	132	40	29.6	5	0.69
527	Stone 10546 ...	8.0	...	19	23	58.37	126	12	17.4	4	0.61
528	... ..	8.5	1	19	25	45.19	133	42	54.0	2	0.76
529	Stone 10561 ...	6.0	...	19	26	2.87	130	17	11.2	5	0.70
530	52 Sagittarii <i>h</i> ^a ...	4.6	...	19	29	31.39	115	8	38.6	5	0.65
531	... ..	7.7	3	19	30	7.64	129	1	11.5	5	0.62
532	Stone 10622 ...	6.1	...	19	35	44.50	127	48	54.6	5	0.71
533	... ..	8.0	3	19	36	34.09	128	7	24.7	5	0.66
534	R. P. L. 133 ...	7.9	...	19	38	0.80	4	9	28.1	6	0.42
535	... ..	8.0	2	19	39	44.90	125	27	44.3	2	0.75
536	R. P. L. 134 ...	8.5	...	19	39	48.75	4	9	39.1	4	0.64
537	... ..	7.8	3	19	42	30.41	132	9	14.0	5	0.63
538	Taylor 9112 ...	5.6	...	19	43	49.51	130	10	19.5	2	0.74
539	53 Aquilæ <i>a</i> (<i>Altair</i>) ...	1.0	...	19	45	1.53	81	26	31.6	10	0.68
540	Taylor 9131 ...	7.0	...	19	47	11.69	148	14	0.0	3	0.70
541	... ..	8.5	2	19	48	5.47	132	0	1.6	2	0.71
542	60 Aquilæ <i>β</i> ...	4.0	...	19	49	31.05	83	53	13.6	3	0.65
543	... ..	7.5	3	19	50	14.84	132	59	44.7	4	0.74
544	Taylor 9171 ...	5.9	...	19	52	26.48	135	25	59.3	5	0.70
545	Stone 10758 ...	7.5	...	19	54	36.48	181	44	34.9	5	0.63
546	... ..	9.3	1	19	58	25.69	148	10	43.5	2	0.78
547	... ..	8.0	3	19	58	39.28	134	38	18.9	5	0.75
548	... ..	8.6	4	20	0	52.29	131	1	57.8	5	0.63
549	65 Aquilæ <i>θ</i> ...	3.4	...	20	5	12.94	91	10	13.6	12	0.71
550	Stone 10833 ...	8.0	...	20	6	49.26	134	2	0.2	3	0.74
551	Stone 10836 ...	7.2	...	20	8	14.38	131	50	12.1	5	0.78
552	Stone 10858 ...	7.5	...	20	10	44.00	134	53	22.4	2	0.69
553	... ..	8.5	2	20	13	21.04	135	21	22.1	3	0.74
554	R. P. L. 138 ...	7.1	...	20	16	25.99	5	40	42.6	15	0.42
555	... ..	7.4	5	20	19	2.90	135	8	34.2	5	0.70
556	... ..	7.5	2	20	20	2.57	130	23	53.4	2	0.72
557	... ..	8.5	2	20	21	25.19	133	19	44.6	4	0.77
558	R. P. L. 143 ...	6.7	...	20	27	8.02	5	14	54.1	7	0.26
559	2 Delphini <i>ε</i> ...	4.1	...	20	27	34.47	79	5	49.0	13	0.71
560	Stone 10972 ...	6.8	...	20	27	42.80	134	44	32.3	5	0.71

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
526	Stone 10542 ...	+ 4.2240	- 0.0200	...	- 7.146	- 0.573	...	...
527	Stone 10546 ...	+ 3.9800	- 0.0152	...	- 7.184	- 0.540	...	...
528	... ..	+ 4.2021	- 0.0214	...	- 7.329	- 0.576	...	...
529	Stone 10561 ...	+ 4.1266	- 0.0186	...	- 7.355	- 0.557	...	...
530	52 Sagittarii <i>h</i> ^a ...	+ 3.6525	- 0.0102	+ 0.002	- 7.636	- 0.400	+ 0.01	2478
531	... ..	+ 4.0730	- 0.0184	...	- 7.684	- 0.540	...	...
532	Stone 10622 ...	+ 4.0194	- 0.0184	...	- 8.136	- 0.534	...	...
533	... ..	+ 4.0298	- 0.0188	...	- 8.202	- 0.533	...	...
534	R. P. L. 133 ...	- 13.6626	- 1.6822	...	- 8.317	+ 1.817	...	...
535	... ..	+ 3.9358	- 0.0175	...	- 8.455	- 0.517	...	...
536	R. P. L. 134 ...	- 13.5895	- 1.7016	...	- 8.460	+ 1.800	...	...
537	... ..	+ 4.1636	- 0.0236	...	- 8.673	- 0.544	...	...
538	Taylor 9112 ...	+ 4.0871	- 0.0218	...	- 8.777	- 0.533	...	...
539	53 Aquilæ <i>α</i> ...	+ 2.8919	- 0.0014	+ 0.035	- 8.871	- 0.374	- 0.38	2524
540	Taylor 9131 ...	+ 4.9994	- 0.0530	...	- 9.041	- 0.648	...	...
541	... ..	+ 4.1447	- 0.0245	...	- 9.111	- 0.535	...	...
542	60 Aquilæ <i>β</i> ...	+ 2.9452	- 0.0020	+ 0.001	- 9.222	- 0.378	+ 0.47	2538
543	... ..	+ 4.1774	- 0.0256	...	- 9.278	- 0.537	...	...
544	Taylor 9171 ...	+ 4.2693	- 0.0203	...	- 9.449	- 0.546	...	...
545	Stone 10758 ...	+ 4.1192	- 0.0255	...	- 9.615	- 0.524	...	...
546	... ..	+ 4.9450	- 0.0572	...	- 9.908	- 0.623	...	...
547	... ..	+ 4.2194	- 0.0296	...	- 9.925	- 0.532	...	...
548	... ..	+ 4.0777	- 0.0257	...	- 10.093	- 0.511	...	...
549	65 Aquilæ <i>0</i> ...	+ 3.0957	- 0.0042	...	- 10.419	- 0.382	...	...
550	Stone 10833 ...	+ 4.1719	- 0.0304	...	- 10.536	- 0.514	...	...
551	Stone 10836 ...	+ 4.0867	- 0.0278	...	- 10.645	- 0.501	...	...
552	Stone 10858 ...	+ 4.1932	- 0.0323	...	- 10.830	- 0.511	...	...
553	... ..	+ 4.2032	- 0.0334	...	- 11.021	- 0.508	...	...
554	R. P. L. 138 ...	- 8.0602	- 1.0518	...	- 11.246	+ 0.978	...	...
555	... ..	+ 4.1761	- 0.0340	...	- 11.435	- 0.496	...	...
556	... ..	+ 4.0041	- 0.0280	...	- 11.505	- 0.474	...	...
557	... ..	+ 4.1009	- 0.0318	...	- 11.604	- 0.484	...	...
558	R. P. L. 143 ...	- 8.5841	- 1.2823	...	- 12.008	+ 1.008	...	...
559	2 Delphini <i>ε</i> ...	+ 2.8664	- 0.0013	- 0.001	- 12.039	- 0.330	+ 0.02	2642
560	Stone 10972 ...	+ 4.1315	- 0.0349	...	- 12.048	- 0.478

Mean Positions of Stars for 1882, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
561	Taylor 9519	6.4	...	20	33	30.34	132	32	58.4	2	0.70
562	8.1	5	20	35	2.10	131	16	45.4	5	0.72
563	... ..	8.0	1	20	37	34.69	126	31	56.8	1	0.70
564	Taylor 9570	6.8	...	20	38	47.41	126	32	49.1	5	0.80
565	2 Aquarii	3.8	...	20	41	17.20	99	55	36.5	9	0.73
566	... ..	8.0	...	20	41	40.06	132	8	48.6	4	0.69
567	Stone 11081	7.5	...	20	43	55.72	131	20	42.4	4	0.76
568	... ..	8.0	2	20	45	18.29	135	45	39.0	2	0.72
569	Taylor 9666	6.8	...	20	49	51.05	134	32	59.2	5	0.69
570	76 Draconis	5.6	...	20	51	2.68	7	54	24.9	6	0.33
571	... ..	8.0	2	20	52	28.85	129	10	47.4	3	0.78
572	Stone 11150	8.0	...	20	53	30.58	129	11	44.9	4	0.79
573	... ..	8.0	5	20	56	40.30	127	59	36.7	5	0.70
574	Stone 11186	7.3	...	20	57	40.21	127	41	45.2	3	0.81
575	γ Microscopii	6.0	...	20	58	44.48	131	51	18.4	1	0.69
576	23 Capricorni θ	4.3	...	20	59	18.75	107	42	4.7	10	0.77
577	... ..	8.0	1	21	0	8.69	150	59	54.0	1	0.73
578	... ..	8.5	4	21	4	10.15	128	26	21.3	5	0.74
579	64 Cygni ζ	3.5	...	21	7	54.76	60	15	22.0	4	0.72
580	Stone 11235	7.3	...	21	10	20.52	129	19	19.8	5	0.70
581	5 Cephei α (Alderamin)	2.6	...	21	15	45.21	27	54	49.8	1	0.84
582	... ..	7.0	3	21	16	35.61	130	31	59.4	5	0.75
583	... ..	8.3	4	21	18	44.04	152	36	36.4	4	0.84
584	... ..	7.5	5	21	19	17.60	132	34	56.9	5	0.73
585	Stone 11371	7.3	...	21	22	10.23	128	35	55.6	5	0.76
586	R. P. L. 149	7.5	...	21	22	56.71	3	27	14.9	18	0.50
587	... ..	7.5	5	21	28	57.92	134	22	26.0	5	0.73
588	Stone 11434	6.7	...	21	32	21.97	133	39	50.0	3	0.86
589	Stone 11470	7.3	...	21	37	42.68	128	58	54.0	2	0.86
590	... ..	9.0	3	21	38	9.37	148	12	57.6	5	0.75
591	... ..	8.5	5	21	39	0.25	133	28	48.0	5	0.71
592	... ..	8.0	...	21	39	41.22	126	15	3.2	4	0.78
593	... ..	7.3	5	21	40	40.82	130	47	24.6	5	0.85
594	γ Gruis	3.0	...	21	46	46.81	127	55	8.3	4	0.86
595	Stone 11535	7.3	...	21	48	21.77	135	48	16.3	5	0.72

580.—Lacaille 8760. This star apparently has a large proper motion.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
561	Taylor 9519 ...	+ 4 ⁰ 344	- 0 ⁰ 324	...	- 12 ⁴ 50	- 0 ⁰ 457	...	...
562	... ..	+ 3 ⁹ 874	- 0 ⁰ 310	...	- 12 ⁵ 55	- 0 ⁰ 440	...	...
563	... ..	+ 3 ⁸ 379	- 0 ⁰ 239	...	- 12 ⁷ 28	- 0 ⁰ 420	...	...
564	Taylor 9570 ...	+ 3 ⁸ 348	- 0 ⁰ 259	...	- 12 ⁸ 09	- 0 ⁰ 426	...	...
565	2 Aquarii ε ...	+ 3 ² 507	- 0 ⁰ 084	- 0 ⁰ 000	- 12 ⁹ 76	- 0 ⁰ 356	+ 0 ⁰ 03	2681
566	... ..	+ 3 ⁰ 9 ³ ₂₅	- 0 ⁰ 330	...	- 13 ⁰ 01	- 0 ⁰ 439	...	...
567	Stone 11081 ...	+ 3 ⁹ 604	- 0 ⁰ 321	...	- 13 ¹ 52	- 0 ⁰ 431	...	...
568	... ..	+ 4 ¹ 034	- 0 ⁰ 387	...	- 13 ² 42	- 0 ⁰ 444	...	...
569	Taylor 9666 ...	+ 4 ⁰ 432	- 0 ⁰ 374	- 0 ⁰ 043	- 13 ⁵ 39	- 0 ⁰ 430	+ 0 ⁰ 91	Stone
570	76 Draconis ...	- 3 ⁹ 948	- 0 ⁰ 5273	+ 0 ⁰ 014	- 13 ⁶ 15	+ 0 ⁰ 434	- 0 ⁰ 01	2754
571	... ..	+ 3 ⁸ 676	- 0 ⁰ 301	...	- 13 ⁷ 07	- 0 ⁰ 407	...	...
572	Stone 11150 ...	+ 3 ⁸ 649	- 0 ⁰ 302	...	- 13 ⁷ 73	- 0 ⁰ 405	...	...
573	... ..	+ 3 ⁸ 215	- 0 ⁰ 291	...	- 13 ⁹ 73	- 0 ⁰ 395	...	...
574	Stone 11186 ...	+ 3 ⁸ 103	- 0 ⁰ 288	...	- 14 ⁰ 35	- 0 ⁰ 392	...	...
575	η Microscopii ...	+ 3 ⁹ 238	- 0 ⁰ 341	- 0 ⁰ 002	- 14 ¹ 02	- 0 ⁰ 402	+ 0 ⁰ 06	Stone
576	23 Capricorni 0 ...	+ 3 ⁷ 749	- 0 ⁰ 128	+ 0 ⁰ 004	- 14 ¹ 37	- 0 ⁰ 344	+ 0 ⁰ 05	2733
577	... ..	+ 4 ⁷ 763	- 0 ⁰ 850	...	- 14 ¹ 89	- 0 ⁰ 488	...	...
578	... ..	+ 3 ⁸ 139	- 0 ⁰ 301	...	- 14 ⁴ 36	- 0 ⁰ 383	...	...
579	64 Cygni ζ ...	+ 2 ⁵ 512	+ 0 ⁰ 0038	- 0 ⁰ 002	- 14 ⁶ 61	- 0 ⁰ 248	+ 0 ⁰ 07	2760
580	Stone 11285 ...	+ 3 ⁸ 110	- 0 ⁰ 316	...	- 14 ⁸ 06	- 0 ⁰ 370	...	...
581	5 Cephei α ...	+ 1 ⁴ 149	- 0 ⁰ 071	+ 0 ⁰ 021	- 15 ¹ 21	- 0 ⁰ 130	- 0 ⁰ 03	2786
582	... ..	+ 3 ⁸ 201	- 0 ⁰ 335	...	- 15 ¹ 69	- 0 ⁰ 358	...	...
583	... ..	+ 4 ⁷ 416	- 0 ⁰ 1000	...	- 15 ² 01	- 0 ⁰ 442	...	...
584	... ..	+ 3 ⁸ 849	- 0 ⁰ 306	...	- 15 ³ 22	- 0 ⁰ 358	...	...
585	Stone 11371 ...	+ 3 ⁷ 504	- 0 ⁰ 314	...	- 15 ⁴ 84	- 0 ⁰ 342	...	...
586	R. P. L. 149 ...	- 10 ⁹ 453	- 3 ¹ 121	...	- 15 ⁵ 27	+ 1 ⁰ 017	...	...
587	... ..	+ 3 ⁸ 733	- 0 ⁰ 398	...	- 15 ⁸ 55	- 0 ⁰ 340	...	...
588	Stone 11434 ...	+ 3 ⁸ 386	- 0 ⁰ 380	...	- 16 ⁰ 35	- 0 ⁰ 330	...	...
589	Stone 11470 ...	+ 3 ⁷ 015	- 0 ⁰ 323	...	- 16 ³ 12	- 0 ⁰ 308	...	...
590	... ..	+ 4 ⁸ 241	- 0 ⁰ 761	...	- 16 ³ 34	- 0 ⁰ 360	...	...
591	... ..	+ 3 ⁸ 040	- 0 ⁰ 387	...	- 16 ³ 77	- 0 ⁰ 314	...	...
292	... ..	+ 3 ⁸ 357	- 0 ⁰ 289	...	- 16 ⁴ 12	- 0 ⁰ 299	...	...
593	... ..	+ 3 ⁷ 311	- 0 ⁰ 358	...	- 16 ⁴ 61	- 0 ⁰ 305	...	...
594	γ Gruis ..	+ 3 ⁶ 442	- 0 ⁰ 310	+ 0 ⁰ 005	- 16 ⁷ 60	- 0 ⁰ 286	+ 0 ⁰ 02	Stone
595	Stone 11535 ...	+ 3 ⁸ 193	- 0 ⁰ 427	...	- 16 ⁸ 36	- 0 ⁰ 297	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
596	... ..	7.0	5	21	49	54.56	128	13	5.8	7	0.80
597	Taylor 10179 ...	7.8	...	21	50	11.48	128	19	12.7	2	0.79
598	... ..	8.5	2	21	52	1.80	132	36	19.2	2	0.86
599	... ..	7.5	1	21	52	44.91	131	6	13.6	1	0.86
600	... ..	7.5	5	21	54	53.14	127	44	30.2	5	0.71
601	... ..	8.0	5	21	58	12.36	127	53	11.7	5	0.84
602	Stone 11601 ...	6.9	...	21	58	45.34	134	32	17.9	3	0.86
603	α Gruis ...	1.9	...	22	0	47.30	137	31	56.4	9	0.78
604	... ..	7.5	4	22	2	1.85	126	37	56.2	5	0.72
605	... ..	8.0	5	22	6	30.24	131	43	6.3	5	0.84
606	... ..	8.0	3	22	6	57.09	135	17	39.2	4	0.74
607	... ..	8.7	5	22	8	42.75	132	52	6.5	5	0.75
608	α Tucanæ ...	2.8	...	22	10	24.20	150	50	51.8	3	0.86
609	48 Aquarii γ ...	4.1	...	22	15	33.61	91	58	53.4	19	0.77
610	... ..	8.0	5	22	19	5.91	130	43	8.3	5	0.79
611	R. P. L. 150 ...	5.5	...	22	22	31.17	4	29	11.3	1	0.72
612	55 Aquarii ζ^1 ...	4.7	...	22	22	45.22	90	37	23.3	4	0.87
613	R. P. L. 151 ...	6.9	...	22	22	56.33	4	22	18.8	3	0.78
614	... ..	7.1	4	22	26	41.44	126	2	50.8	5	0.75
615	R. P. L. 153 ...	7.6	...	22	27	1.91	2	31	8.5	7	0.21
616	R. P. L. 152 ...	7.2	...	22	28	11.43	5	32	27.2	20	0.53
617	... ..	7.0	4	22	28	12.23	150	28	16.6	5	0.81
618	T Aquarii, Var. 3 ...	10.5	3	22	29	41.21	98	13	4.4	2	0.88
619	... ..	8.1	5	22	35	13.22	152	40	56.8	5	0.81
620	... ..	8.0	4	22	36	11.16	148	1	48.9	5	0.81
621	... ..	7.2	3	22	36	27.97	130	37	31.3	5	0.77
622	44 Pegasi η ...	3.1	...	22	37	28.09	60	23	43.2	3	0.87
623	... ..	8.5	...	22	40	59.04	132	10	24.0	5	0.81
624	... .. (2nd Star) ...	7.5	5	22	45	44.53	133	24	49.2	5	0.81
625	73 Aquarii λ ...	3.8	...	22	46	27.36	98	12	26.8	12	0.81
626	24 Pis. Aust. α (Fomalhaut)	1.3	...	22	51	7.58	120	14	50.4	18	0.85
627	Stone 12002 ...	7.5	...	22	58	14.74	126	31	56.3	4	0.87
628	... ..	8.5	...	22	58	25.28	155	58	35.2	1	0.76
629	Lacaille 9360—2nd ...	7.0	...	22	59	3.35	133	42	55.5	1	0.82
630	R. P. L. 155 ...	9.0	...	23	24	18.01	4	13	56.6	20	0.56

611.—Groombridge 3820.

615.—Carrington 3466.

613.—Groombridge 3824.

616.—Carrington 3458.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
596	...	+ 3'6386	- 0'0314	...	- 16'911	- 0'279	...	...
597	Taylor 10179	+ 3'6393	- 0'0315	...	- 16'923	- 0'279	...	...
598	...	+ 3'7238	- 0'0375	...	- 17'008	- 0'282	...	...
599	...	+ 3'6871	- 0'0853	...	- 17'041	- 0'277	...	...
600	...	+ 3'6097	- 0'0307	...	- 17'140	- 0'267	...	...
601	...	+ 3'5993	- 0'0833	...	- 17'288	- 0'260	...	...
602	Stone 11601	+ 3'7363	- 0'0405	...	- 17'312	- 0'269	...	...
603	α Gruis	+ 3'7983	- 0'0457	+ 0'011	- 17'402	- 0'270	+ 0'15	Stone.
604	...	+ 3'5617	- 0'0294	...	- 17'455	- 0'249	...	...
605	...	+ 3'6388	- 0'0359	...	- 17'645	- 0'245	...	...
606	...	+ 3'7120	- 0'0406	...	- 17'604	- 0'249	...	...
607	...	+ 3'6515	- 0'0376	...	- 17'736	- 0'242	...	...
608	α Tucanæ	+ 4'1760	- 0'0858	- 0'007	- 17'802	- 0'274	+ 0'04	Stone.
609	48 Aquarii γ	+ 3'0927	- 0'0042	+ 0'007	- 18'007	- 0'191	- 0'02	2943
610	...	+ 3'5627	- 0'0341	...	- 18'142	- 0'214	...	...
611	R. P. L. 150	- 3'9581	- 1'2407	+ 0'052	- 18'267	+ 0'246	- 0'04	2993
612	55 Aquarii ζ	+ 3'0784	- 0'0033	+ 0'011	- 18'275	- 0'178	- 0'04	2960
613	R. P. L. 151	- 4'1138	- 1'3100	+ 0'025	- 18'282	+ 0'254	- 0'01	2997
614	...	+ 3'4576	- 0'0281	...	- 18'415	- 0'193	...	...
615	R. P. L. 153	- 8'9190	- 4'2017	...	- 18'426	+ 0'516	...	...
616	R. P. L. 152	- 2'3019	- 0'7080	...	- 18'466	+ 0'139	...	...
617	...	+ 3'9925	- 0'0810	...	- 18'465	- 0'220	...	...
618	T Aquarii	+ 3'1465	- 0'0072	...	- 18'517	- 0'170	...	...
619	...	+ 4'0081	- 0'0895	...	- 18'697	- 0'205	...	...
620	...	+ 3'8382	- 0'0700	...	- 18'728	- 0'194	...	...
621	...	+ 3'4812	- 0'0331	...	- 18'737	- 0'174	...	...
622	44 Pegasi η	+ 2'8046	+ 0'0108	+ 0'000	- 18'767	- 0'137	+ 0'03	3003
623	...	+ 3'4817	- 0'0348	...	- 18'874	- 0'165	...	...
624	... (2nd Star)	+ 3'4750	- 0'0362	...	- 19'011	- 0'154	...	...
625	73 Aquarii λ	+ 3'1332	- 0'0063	- 0'002	- 19'080	- 0'137	- 0'04	3019
626	24 Piscis Australis α	+ 3'3031	- 0'0210	+ 0'023	- 19'155	- 0'135	+ 0'16	3032
627	Stone 12002	+ 3'3361	- 0'0269	+ 0'567	- 19'329	- 0'124	- 1'31	Stone.
628	...	+ 3'8686	- 0'1003	...	- 19'335	- 0'143	...	...
629	Lacaille 9360—2nd	+ 3'4082	- 0'0352	...	- 19'349	- 0'124	...	...
630	R. P. L. 155	+ 0'2697	- 0'3276	...	- 19'811	+ 0'003	...	...

Mean Positions of Stars for 1882, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
631	R. P. L. 158	5·7	...	23	27	49·96	3	20	38·4	7	0·20
632	35 Cephei γ	3·4	...	23	34	30·63	13	1	35·3	8	0·82
633	δ Sculptoris	4·6	...	23	42	46·61	118	46	59·2	18	0·86
634	... ..	9·0	1	23	51	31·70	142	51	17·1	1	0·80
635	W. B. E. XXIII. 1032 ...	8·8	3	23	51	45·40	85	15	8·1	5	0·93
636	R. P. L. 162	7·0	...	23	53	58·79	3	57	2·3	20	0·57
637	W. B. E. XXIII. 1110 ...	9·0	5	23	55	32·96	85	36	7·1	5	0·88
638	... ..	9·5	5	23	55	37·09	85	17	6·0	4	0·88

631.—Groombridge 4101.

635—637.—Comparison stars for Sappho in 1882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
631	R. P. L. 158 ...	- 0.1288	- 0.5471	+ 0.084	- 19.857	+ 0.011	- 0.00	3147
632	35 Cephei γ ...	+ 2.4310	+ 0.0748	- 0.020	- 19.930	- 0.031	- 0.14	3152
633	δ Sculptoris ...	+ 3.1275	- 0.0161	+ 0.009	- 19.997	- 0.026	+ 0.10	Stone
634	... ..	+ 3.1375	- 0.0398	...	- 20.040	- 0.008	...	...
635	W. B. E. XXIII. 1032.	+ 3.0684	+ 0.0039	...	- 20.041	- 0.008	...	...
636	R. P. L. 162 ...	+ 2.5640	+ 0.2911	+ 0.022	- 20.047	- 0.001	+ 0.03	3194
637	W. B. E. XXIII. 1110.	+ 3.0704	+ 0.0039	...	- 20.050	0.000
638	+ 3.0702	+ 0.0040	...	- 20.050	0.000

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RESULTS

OF

OBSERVATIONS OF THE FIXED STARS

MADE WITH THE

MERIDIAN CIRCLE

AT THE

GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1883, 1884, 1885, 1886, AND 1887

UNDER THE DIRECTION OF THE LATE

NORMAN ROBERT POGSON, C.I.E., F.R.A.S.

BY

C. MICHIE SMITH, B.Sc., F.R.A.S., F.R.S.E.

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INTRODUCTION.

This volume contains the results of the observations made with the Madras Meridian Circle in the years 1883-87 and completes the series of volumes preliminary to the general catalogue. The number of observations made during this period was only 4052, since after 1883 few observations were made except those required to complete the full number for each star in the list. The observers were the same as in the previous three years and no change has been made in the method of reduction.

The reductions have been revised throughout using corrected values for the meridian errors.

With this volume are also issued lists of the corrections that have to be applied to the results in volume I. to VI. on account of erroneous determinations of meridian error. The most serious errors were due to the use of the stars R. P. L. 14 (Groombridge 195), referred to in last volume, and 24 Cephei (Hev.). The position of this latter star was apparently taken from the *Radcliffe Polar List* and was brought up without the application of any proper motion. No proper motion is ascribed to this star either in the *Greenwich nine-year Catalogue* or in the *Williams College Catalogue*, but Carrington notes it is a proper motion star and there can be little doubt that it has a considerable proper motion. The positions given for 1885 in the *Redhill* and *Radcliffe* catalogues agree fairly well with each other but differ by about 12" from the place given by Safford's observations in 1883. As this star was in certain years frequently used for the determination of the azimuth it is evident that very serious errors were introduced. These errors ought certainly to have been discovered at an early date, but several circumstances conspired to conceal them. Into these it is not necessary to enter in detail here, but I may point out that when I took up the work in 1891, I had no experience either of the accuracy of the observations or of the steadiness of the instrument, and I underestimated

both. The corrections that have now been applied show that the older observations especially were very good and that the instrument was remarkably stable. After heavy rain there is usually a considerable and rapid change in the meridian error, but at other times changes are slow and progressive. Heavy rains are, I believe, responsible for a few outstanding cases of uncertain meridian error, for on a small number of days the error has had to be obtained by interpolation between days before and after such rain, but the number of observations affected is not great and the uncertainty lies between moderate limits.

One point that comes out clearly as a result of the investigation of the meridian errors is that for satisfactory work in low latitudes it is necessary to have either a much larger list of polar stars whose positions are accurately determined, or to have a good meridian mark. There are many nights here when good observations can be got of stars at a considerable altitude though it is quite impossible to get any observations of stars below the pole or even within 10° above the pole, and on a good many other nights stars below the pole are so unsteady that they, at times, appear to dance backwards and forwards across the wires. In the great majority of observations of polar stars the transits were taken over only three wires, and in many cases there was a considerable divergence between the times given by the different wires; passing clouds frequently prevented even three consecutive wires from being observed. With highly trained observers it is probable that better results would have been obtained by using the R. A. micrometer and observing a number of transits over the middle wire, but with the observers available for the work here this would have only led to increased errors, for it was found necessary even to give up the use of the P. D. micrometer. So long as the work was simple and purely routine good results were obtained, but the least complexity or interference with the routine was fatal.

It has not been considered necessary to print all the corrections that have been made. In most cases corrections have been entered in the *errata* only when they affected the mean place of the star for any year by more than $0\cdot02$, but all corrections affecting the separate results to the extent of $0\cdot01$ have been entered in the working copies and will be taken into account in forming the catalogue places.

Instrumental Corrections adopted in 1883.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Jan. 1	R	— 4.6	0.0	+ 0.25	+ 0.32	+ 0.03	+ 0.33	85 and 117 R. P. L.
2	"	— 4.7	0.0	+ 0.27	+ 0.33	+ 0.04	+ 0.27	34, 35 & 100, 118 R. P. L.
3	"	— 4.8	0.0	+ 0.38	+ 0.35	+ 0.03	+ 0.26	34 and 118 R. P. L.
4	"	— 6.8	0.0	+ 0.45	+ 0.33	+ 0.02	+ 0.31	37 and 117 R. P. L.
5	"	— 7.2	0.0	+ 0.45	+ 0.33	+ 0.04	+ 0.33	2 Ursæ Minoris and 117 R. P. L.
8	M	— 5.9	0.0	+ 0.45	+ 0.32	+ 0.03	+ 0.29	37 and 118 R. P. L.
9	"	— 6.8	0.0	+ 0.45	+ 0.32	+ 0.04	+ 0.30	37 and 118 R. P. L.
11	"	— 6.7	0.0	+ 0.57	+ 0.32	+ 0.04	+ 0.30	
12	"	— 7.6	0.0	+ 0.56	+ 0.34	+ 0.04	+ 0.30	37 and 110, 117 R. P. L.
15	"	— 8.0	0.0	+ 0.33	+ 0.34	+ 0.04	+ 0.29	37, 39, 40, and 114, 117 R. P. L.
16	"	— 7.7	0.0	+ 0.32	+ 0.32	+ 0.03	+ 0.25	37, 39, 40, and 110, 114, 117 R. P. L.
17	"	— 7.7	0.0	+ 0.34	+ 0.34	+ 0.04	+ 0.30	37, 39 and 110, 114, 117 R. P. L.
18	"	— 7.5	0.0	+ 0.40	+ 0.32	+ 0.05	+ 0.30	37, 39, 40, 43, and 116, 120 R. P. L.
19	"	— 7.8	0.0	+ 0.43	+ 0.33	+ 0.04	+ 0.31	37, 41, 43 and 117, 118, 120 R. P. L.
20	"	— 7.0	0.0	+ 0.45	+ 0.34	+ 0.04	+ 0.32	37, 39, 43 and 116 R. P. L.
22	"	— 6.8	0.0	+ 0.45	+ 0.35	+ 0.04	+ 0.34	39 and 116 R. P. L.
24	"	— 7.8	0.0	+ 0.46	+ 0.36	+ 0.04	+ 0.32	43, 117 and 118 R. P. L.
25	"	— 6.7	0.0	+ 0.52	+ 0.36	+ 0.04	+ 0.34	39, 43 and 117 R. P. L.
26	"	— 6.9	0.0	+ 0.56	+ 0.34	+ 0.04	+ 0.32	
27	"	— 6.8	0.0	+ 0.56	+ 0.36	+ 0.04	+ 0.30	39 and 116, 120, 133 R.P.L.
29	"	— 7.4	0.0	+ 0.64	+ 0.37	+ 0.04	+ 0.32	
30	"	— 7.5	0.0	+ 0.53	+ 0.37	+ 0.04	+ 0.32	39 and 116, 120, 133 R.P.L.
31	"	— 7.1	0.0	+ 0.49	+ 0.40	+ 0.03	+ 0.30	39 and 120, R. P. L.
Feb. 1	R	— 10.1	0.0	+ 0.55	+ 0.41	+ 0.04	+ 0.30	118 and 133 R. P. L.
2	"	— 8.9	0.0	+ 0.55	+ 0.42	+ 0.04	+ 0.30	118 and 133 R. P. L.
3	"	— 9.0	0.0	+ 0.54	+ 0.42	+ 0.04	+ 0.31	
5	"	— 9.1	0.0	+ 0.69	+ 0.40	+ 0.04	+ 0.31	
6	M	— 9.3	0.0	+ 0.66	+ 0.38	+ 0.04	+ 0.32	
7	"	— 7.7	0.0	+ 0.60	+ 0.39	+ 0.04	+ 0.32	118 and 134 R. P. L.
8	R	— 8.0	0.0	+ 0.53	+ 0.40	+ 0.04	+ 0.33	51 Cephei and 120, 133 R. P. L.
9	"	— 8.2	0.0	+ 0.55	+ 0.39	+ 0.04	+ 0.34	51 Cephei and 120 R. P. L.
10	"	— 9.5	0.0	+ 0.57	+ 0.42	+ 0.02	+ 0.37	51 Cephei and 120, 134 R. P. L.
12	"	— 9.9	0.0	+ 0.55	+ 0.38	+ 0.04	+ 0.35	51 Cephei and 120 R. P. L.
13	"	— 10.0	0.0	+ 0.69	+ 0.39	+ 0.03	+ 0.28	51 Cephei and 134 R. P. L.
14	"	— 9.4	0.0	+ 0.53	+ 0.41	+ 0.04	+ 0.33	51 Cephei and 120, 134 R. P. L.
15	"	— 9.1	0.0	+ 0.55	+ 0.38	+ 0.04	+ 0.32	51 Cephei and 134 R. P. L.
16	"	— 9.5	0.0	+ 0.54	+ 0.39	+ 0.03	+ 0.33	
17	"	— 8.5	0.0	+ 0.54	+ 0.42	+ 0.04	+ 0.44	
19	"	— 9.3	0.0	+ 0.61	+ 0.41	+ 0.03	+ 0.35	51 Cephei and 134 R. P. L.
20	"	— 9.3	0.0	+ 0.63	+ 0.40	+ 0.03	+ 0.37	51 Cephei and 134 R. P. L.
21	"	— 8.6	0.0	+ 0.61	+ 0.38	+ 0.02	+ 0.36	
22	"	— 9.0	0.0	+ 0.62	+ 0.39	+ 0.03	+ 0.35	
23	"	— 8.5	0.0	+ 0.66	+ 0.38	+ 0.04	+ 0.35	
24	"	— 9.5	0.0	+ 0.67	+ 0.37	+ 0.03	+ 0.34	51 Cephei and 134 R. P. L.
26	"	— 9.5	0.0	+ 0.60	+ 0.42	+ 0.04	+ 0.31	
27	"	— 9.3	0.0	+ 0.60	+ 0.43	+ 0.04	+ 0.30	
28	"	— 9.7	0.0	+ 0.65	+ 0.48	+ 0.04	+ 0.29	82 and 134 R. P. L.
Mar. 1	"	— 10.8	0.0	+ 0.66	+ 0.46	+ 0.02	+ 0.30	

Instrumental Corrections adopted in 1888.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining stars.
		"	"	s	s	s	s	
Apl. 3	M	- 7.6	0.0	+ 0.48	+ 0.56	+ 0.04	+ 0.48	82 R. P. L. and Polaris.
4	"	- 6.2	0.0	+ 0.49	+ 0.58	+ 0.04	+ 0.50	82 R. P. L. and Polaris.
5	"	- 7.0	0.0	+ 0.56	+ 0.59	+ 0.04	+ 0.51	82 R. P. L. and Polaris.
6	"	- 5.9	0.0	+ 0.40	+ 0.59	+ 0.08	+ 0.50	72, 82, R. P. L. & Polaris.
7	"	- 5.8	0.0	+ 0.29	+ 0.60	+ 0.08	+ 0.51	82 R. P. L. and Polaris.
9	"	- 6.8	0.0	+ 0.42	+ 0.58	+ 0.08	+ 0.52	82 R. P. L. and Polaris.
10	"	- 6.0	0.0	+ 0.46	+ 0.58	+ 0.08	+ 0.52	
11	"	- 6.7	0.0	+ 0.49	+ 0.58	+ 0.08	+ 0.52	
12	"	- 6.8	0.0	+ 0.51	+ 0.58	+ 0.08	+ 0.52	
13	"	- 5.9	0.0	+ 0.55	+ 0.58	+ 0.08	+ 0.52	
14	"	- 6.5	0.0	+ 0.49	+ 0.60	+ 0.08	+ 0.53	
16	"	- 5.7	0.0	+ 0.55	+ 0.58	+ 0.08	+ 0.53	
17	"	- 6.6	0.0	+ 0.59	+ 0.58	+ 0.08	+ 0.52	82 R. P. L. and Polaris.
18	"	- 5.8	0.0	+ 0.53	+ 0.59	+ 0.08	+ 0.55	82 R. P. L. and Polaris.
19	"	- 5.7	0.0	+ 0.53	+ 0.61	+ 0.08	+ 0.57	
20	"	- 5.7	0.0	+ 0.57	+ 0.62	+ 0.08	+ 0.60	
21	"	- 4.9	0.0	+ 0.56	+ 0.63	+ 0.04	+ 0.62	82 R. P. L. and Polaris.
23	"	- 6.8	0.0	+ 0.42	+ 0.60	+ 0.08	+ 0.60	
24	"	- 6.7	0.0	+ 0.41	+ 0.62	+ 0.08	+ 0.59	
25	"	- 5.5	0.0	+ 0.49	+ 0.65	+ 0.04	+ 0.59	
26	"	- 5.6	0.0	+ 0.51	+ 0.65	+ 0.02	+ 0.58	
28	"	- 4.8	0.0	+ 0.44	+ 0.66	+ 0.08	+ 0.56	
30	"	- 5.0	0.0	+ 0.37	+ 0.65	+ 0.08	+ 0.55	
May 1	R	- 5.8	- 0.1	+ 0.06	+ 0.70	+ 0.03	+ 0.54	
2	"	- 5.4	- 0.1	- 0.26	+ 0.66	+ 0.03	+ 0.53	
3	"	- 5.5	- 0.1	- 0.28	+ 0.65	+ 0.03	+ 0.52	111 R. P. L. and Polaris.
4	"	- 6.4	- 0.1	- 0.26	+ 0.64	+ 0.03	+ 0.55	
5	"	- 6.3	- 0.1	- 0.26	+ 0.67	+ 0.03	+ 0.57	110, 116 and 26 R. P. L. Polaris.
7	"	- 6.6	- 0.1	- 0.26	+ 0.70	+ 0.03	+ 0.58	116, & 37 R. P. L., Polaris.
8	"	- 6.6	- 0.1	- 0.26	+ 0.66	+ 0.02	+ 0.53	116 R. P. L. and Polaris.
9	"	- 6.5	- 0.1	- 0.23	+ 0.69	+ 0.03	+ 0.56	116 R. P. L. and Polaris.
10	"	- 6.6	- 0.1	- 0.22	+ 0.67	+ 0.02	+ 0.56	
11	"	- 6.6	- 0.1	- 0.21	+ 0.69	+ 0.04	+ 0.57	
12	"	- 5.9	- 0.1	- 0.16	+ 0.71	+ 0.03	+ 0.57	116 R. P. L., ε Urs. Min. and 37 R. P. L.
14	"	- 5.6	- 0.1	- 0.21	+ 0.70	+ 0.04	+ 0.58	
15	"	- 5.4	- 0.1	- 0.19	+ 0.69	+ 0.03	+ 0.59	
18	"	- 5.0	- 0.1	+ 0.01	+ 0.76	+ 0.04	+ 0.61	117, 120, and 39, 40 R.P.L.
19	"	- 5.0	- 0.1	- 0.03	+ 0.71	+ 0.02	+ 0.59	117, 120, and 39, 40 R.P.L.
21	"	- 4.5	- 0.1	- 0.24	+ 0.73	+ 0.03	+ 0.59	
22	"	- 4.7	- 0.1	- 0.22	+ 0.76	+ 0.02	+ 0.58	
23	"	- 4.9	- 0.1	- 0.25	+ 0.73	+ 0.02	+ 0.58	117 and 39, 40 R. P. L.
24	"	- 4.5	- 0.1	- 0.27	+ 0.75	+ 0.02	+ 0.59	
25	"	- 4.8	- 0.1	- 0.24	+ 0.73	+ 0.02	+ 0.61	
28	"	- 4.4	- 0.1	- 0.29	+ 0.77	+ 0.03	+ 0.65	120 and 39 R. P. L.
29	"	- 4.8	- 0.1	- 0.24	+ 0.72	+ 0.01	+ 0.64	
30	"	- 4.8	- 0.1	- 0.13	+ 0.73	+ 0.02	+ 0.62	
31	"	- 5.0	- 0.1	+ 0.01	+ 0.70	+ 0.02	+ 0.61	
June 1	"	- 4.9	+ 0.3	+ 0.04	+ 0.70	+ 0.01	+ 0.60	120 and 41 R. P. L.
2	"	- 5.7	+ 0.3	- 0.01	+ 0.73	+ 0.01	+ 0.59	
7	"	- 4.3	+ 0.3	- 0.20	+ 0.72	+ 0.03	+ 0.57	
8	M	- 4.5	+ 0.1	- 0.23	+ 0.74	+ 0.03	+ 0.60	
9	"	- 5.0	+ 0.1	- 0.27	+ 0.75	+ 0.03	+ 0.62	
11	"	- 4.0	+ 0.1	- 0.29	+ 0.74	+ 0.03	+ 0.67	
14	"	- 3.0	+ 0.1	- 0.19	+ 0.74	+ 0.03	+ 0.75	
15	"	- 4.2	+ 0.1	- 0.14	+ 0.74	+ 0.03	+ 0.77	ε Urs. Min. and 39 R.P.L.

Instrumental Corrections adopted in 1883.

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclination.	Collimation.	Meridian	Determining Stars.
		"	"	s	s	s	s	
June 19	M	- 3.7	+ 0.1	- 0.06	+ 0.75	+ 0.03	+ 0.76	
20	"	- 4.4	+ 0.1	- 0.07	+ 0.68	+ 0.05	+ 0.76	
22	"	- 3.9	+ 0.1	- 0.11	+ 0.63	+ 0.03	+ 0.76	
26	"	- 3.3	+ 0.1	- 0.15	+ 0.60	+ 0.03	+ 0.75	
July 3	R	- 4.0	+ 0.1	- 0.27	+ 0.59	+ 0.04	+ 0.74	
4	"	- 3.1	+ 0.1	- 0.26	+ 0.60	+ 0.02	+ 0.73	
17	"	- 2.6	+ 0.1	- 0.38	+ 0.55	+ 0.02	+ 0.71	
18	"	- 1.6	+ 0.1	- 0.49	+ 0.56	+ 0.02	+ 0.71	
20	"	- 1.9	+ 0.1	- 0.43	+ 0.55	+ 0.03	+ 0.70	
24	"	- 2.0	+ 0.1	- 0.36	+ 0.51	+ 0.03	+ 0.70	
28	"	- 0.7	+ 0.1	- 0.36	+ 0.51	+ 0.04	+ 0.69	
30	"	+ 0.5	+ 0.1	- 0.38	+ 0.48	+ 0.02	+ 0.67	143, and 53 R. P. L.
31	"	+ 0.5	+ 0.1	- 0.39	+ 0.47	+ 0.03	+ 0.66	
Aug. 2	"	- 0.4	0.0	- 0.35	+ 0.50	+ 0.02	+ 0.63	
3	"	- 0.2	0.0	- 0.32	+ 0.49	+ 0.02	+ 0.62	
4	"	0.0	0.0	- 0.30	+ 0.46	+ 0.02	+ 0.61	133, 138, and 48 R. P. L.
8	"	- 0.1	0.0	- 0.36	+ 0.49	+ 0.02	+ 0.65	133, 134, and 39, 41 R. P. L.
9	"	- 3.6	0.0	- 0.37	+ 0.46	+ 0.01	+ 0.67	133, 134, and 39 R. P. L.
10	"	- 3.7	0.0	- 0.31	+ 0.46	+ 0.03	+ 0.67	133, and 43 R. P. L.
11	"	- 4.2	0.0	- 0.26	+ 0.46	+ 0.03	+ 0.67	118, 133, 134, & 41, 53 R. P. L.
13	"	- 4.9	0.0	- 0.21	+ 0.49	+ 0.03	+ 0.68	118, 133, 134, & 41, 48, 53 R. P. L.
14	"	- 5.0	0.0	- 0.23	+ 0.48	+ 0.03	+ 0.60	3 Urs. Min., 118, and 41, 48 R. P. L.
16	"	- 4.8	0.0	- 0.30	+ 0.49	+ 0.03	+ 0.69	118, 133 and 41, 43 R. P. L.
18	"	- 4.5	0.0	- 0.30	+ 0.48	+ 0.03	+ 0.67	118 and 41, 43 R. P. L.
25	"	- 4.9	0.0	- 0.41	+ 0.43	+ 0.03	+ 0.70	120 and 43 R. P. L.
28	"	- 4.6	0.0	- 0.41	+ 0.44	+ 0.03	+ 0.70	
Sept. 3	M	- 5.4	0.0	- 0.22	+ 0.44	+ 0.02	+ 0.70	
4	"	- 4.7	0.0	- 0.28	+ 0.39	+ 0.02	+ 0.70	133, 138, 149 & 48 R. P. L.
5	"	- 4.8	0.0	- 0.36	+ 0.44	+ 0.02	+ 0.71	
10	"	- 6.4	0.0	- 0.36	+ 0.40	+ 0.02	+ 0.76	
11	"	- 4.4	0.0	- 0.34	+ 0.41	+ 0.02	+ 0.77	
12	"	- 4.6	0.0	- 0.31	+ 0.38	+ 0.02	+ 0.78	
13	"	- 4.5	0.0	- 0.32	+ 0.38	+ 0.02	+ 0.79	
14	"	- 4.8	0.0	- 0.25	+ 0.37	+ 0.02	+ 0.80	134, 138, 149 and 48, 55, 62 R. P. L.
15	"	- 4.7	0.0	- 0.23	+ 0.37	+ 0.03	+ 0.82	138 and 62 R. P. L.
17	"	- 5.3	0.0	- 0.24	+ 0.34	+ 0.02	+ 0.84	
19	"	- 5.2	0.0	- 0.31	+ 0.34	+ 0.02	+ 0.87	
20	"	- 8.1	0.0	- 0.34	+ 0.38	+ 0.03	+ 0.88	
21	"	- 4.8	0.0	- 0.26	+ 0.35	+ 0.03	+ 0.89	
22	"	- 4.4	0.0	- 0.20	+ 0.34	+ 0.03	+ 0.91	
24	"	- 3.4	0.0	- 0.30	+ 0.34	+ 0.03	+ 0.93	
25	"	- 4.1	0.0	- 0.25	+ 0.33	+ 0.03	+ 0.94	
26	"	- 3.6	0.0	- 0.23	+ 0.32	+ 0.03	+ 0.96	
27	"	- 3.4	0.0	- 0.30	+ 0.33	+ 0.03	+ 0.97	
28	"	- 3.1	0.0	- 0.26	+ 0.32	+ 0.03	+ 0.98	134, 138 and 60 R. P. L.
29	"	- 3.6	0.0	- 0.23	+ 0.31	+ 0.03	+ 0.96	
Oct. 1	R	- 2.9	0.0	- 0.29	+ 0.29	+ 0.04	+ 0.92	
3	"	- 4.7	0.0	- 0.30	+ 0.28	+ 0.04	+ 0.88	
4	"	- 4.4	0.0	- 0.32	+ 0.25	+ 0.04	+ 0.86	
5	"	- 2.9	0.0	- 0.34	+ 0.29	+ 0.05	+ 0.84	
6	"	- 1.6	0.0	- 0.35	+ 0.23	+ 0.03	+ 0.82	
8	"	- 0.2	0.0	- 0.05	+ 0.22	+ 0.06	+ 0.77	

Oct. 6.—Line of transit clock broken : clock stopped and restarted.

Instrumental Corrections adopted in 1883.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars
Oct. 9	R	- 0.9	0.0	+ 0.23	+ 0.22	+ 0.05	+ 0.75	
10	"	- 0.1	0.0	+ 0.22	+ 0.25	+ 0.05	+ 0.73	
11	"	- 0.8	0.0	+ 0.68	+ 0.25	+ 0.06	+ 0.71	
13	"	+ 0.7	0.0	+ 0.69	+ 0.26	+ 0.04	+ 0.67	
17	"	- 4.8	0.0	+ 0.89	- 0.04	+ 0.04	+ 0.59	
18	"	+ 4.8	0.0	+ 0.96	+ 0.03	+ 0.03	+ 0.57	158 and 55 R. P. I.
19	"	+ 5.7	0.0	- 0.98	+ 0.10	+ 0.04	+ 0.56	158 and 82 R. P. I.
20	M	+ 5.3	0.0	+ 0.92	+ 0.12	+ 0.03	+ 0.56	
22	R	+ 4.8	0.0	+ 0.65	+ 0.17	+ 0.04	+ 0.56	158 and 55 R. P. I.
23	"	+ 4.8	0.0	+ 0.56	+ 0.22	+ 0.03	+ 0.58	158 and 82 R. P. I.
24	"	+ 4.2	0.0	+ 0.58	+ 0.28	+ 0.02	+ 0.59	158 and 53 R. P. I.
25	"	+ 5.1	0.0	+ 0.61	+ 0.29	+ 0.01	+ 0.60	158 and 53, 82 R. P. I.
Nov. 5	M	+ 6.0	0.0	+ 0.63	+ 0.42	+ 0.03	+ 0.55	
6	R	+ 5.4	0.0	+ 0.62	+ 0.43	+ 0.03	+ 0.54	
7	M	+ 5.6	0.0	+ 0.53	+ 0.43	+ 0.03	+ 0.54	
9	"	+ 3.8	0.0	+ 0.53	+ 0.40	+ 0.03	+ 0.53	
10	"	+ 4.9	0.0	+ 0.52	+ 0.38	+ 0.03	+ 0.53	158 and 82, 98 R. P. I.
12	"	+ 3.8	0.0	+ 0.41	+ 0.37	+ 0.03	+ 0.54	10, 158 and 82, 97, 100 R. P. I.
13	"	+ 3.3	0.0	+ 0.32	+ 0.37	+ 0.03	+ 0.60	10, 158 and 87, 100 R. P. I.
14	"	+ 2.4	0.0	+ 0.29	+ 0.35	+ 0.03	+ 0.65	158 and 87 R. P. I.
15	"	+ 1.9	0.0	+ 0.34	+ 0.34	+ 0.02	+ 0.64	
16	"	+ 2.2	0.0	+ 0.36	+ 0.35	+ 0.03	+ 0.64	
20	"	+ 1.3	0.0	+ 0.33	+ 0.33	+ 0.03	+ 0.62	
21	"	+ 2.3	0.0	+ 0.45	+ 0.34	+ 0.03	+ 0.61	α Pegasi and 87 R. P. I.
23	"	+ 3.1	0.0	+ 0.41	+ 0.34	+ 0.03	+ 0.60	
26	"	+ 2.1	0.0	+ 0.50	+ 0.32	+ 0.03	+ 0.60	
27	"	+ 0.6	0.0	+ 0.39	+ 0.32	+ 0.02	+ 0.59	
29	"	- 1.2	0.0	+ 0.28	+ 0.33	+ 0.03	+ 0.59	
30	"	+ 0.8	0.0	+ 0.36	+ 0.33	+ 0.03	+ 0.59	
Dec. 4	R	- 0.6	0.0	+ 0.33	+ 0.36	+ 0.04	+ 0.58	
5	"	- 0.6	0.0	+ 0.30	+ 0.36	+ 0.04	+ 0.57	
6	"	- 0.6	0.0	+ 0.28	+ 0.36	+ 0.04	+ 0.57	
7	"	- 2.0	0.0	+ 0.33	+ 0.35	+ 0.04	+ 0.61	158 and 87, 97 R. P. I.
8	"	- 2.7	0.0	+ 0.35	+ 0.33	+ 0.03	+ 0.60	
11	"	- 1.4	0.0	+ 0.40	+ 0.35	+ 0.02	+ 0.57	33 and 97 R. P. I.
17	"	+ 3.3	0.0	+ 0.41	+ 0.72	+ 0.05	+ 0.50	
18	"	+ 3.9	0.0	+ 0.39	+ 0.74	+ 0.05	+ 0.49	
19	"	+ 4.4	0.0	+ 0.39	+ 0.75	+ 0.03	+ 0.48	
20	"	+ 4.1	0.0	+ 0.44	+ 0.78	+ 0.04	+ 0.47	
22	"	+ 4.0	0.0	+ 0.49	+ 0.59	+ 0.01	+ 0.44	33 and 99, 100 R. P. I.
23	"	+ 3.4	0.0	+ 0.50	+ 0.57	+ 0.04	+ 0.45	33 and 99 R. P. I.
25	"	+ 3.1	0.0	+ 0.56	+ 0.52	+ 0.04	+ 0.45	
27	"	+ 3.3	0.0	+ 0.53	+ 0.49	+ 0.05	+ 0.45	
29	"	+ 3.2	0.0	+ 0.41	+ 0.45	+ 0.04	+ 0.45	
30	"	+ 3.2	0.0	+ 0.38	+ 0.43	+ 0.04	+ 0.45	18, 34 and 100, 108 R. P. I.
31	M	+ 1.8	0.0	+ 0.38	+ 0.44	+ 0.03	+ 0.47	14, 26, 34 and 98 R. P. I.

Oct. 11.—New line put in clock.

Instrumental Corrections adopted in 1884.

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		<i>"</i>	<i>"</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	
Jan. 1	M	+ 1.6	0.0	+ 0.34	+ 0.45	+ 0.04	+ 0.38	β Ceti & 2 Ursæ Minoris.
2	"	+ 0.8	0.0	+ 0.37	+ 0.47	+ 0.04	+ 0.38	
3	"	+ 0.9	0.0	+ 0.42	+ 0.46	+ 0.03	+ 0.38	
5	"	+ 0.7	0.0	+ 0.42	+ 0.47	+ 0.03	+ 0.38	
7	"	+ 0.7	0.0	+ 0.37	+ 0.50	+ 0.03	+ 0.38	
8	"	+ 0.2	0.0	+ 0.37	+ 0.47	+ 0.03	+ 0.38	111, 116 R. P. L., & Polaris.
9	"	+ 0.2	0.0	+ 0.40	+ 0.46	+ 0.03	+ 0.34	111 R. P. L. & Polaris, 35, 40, R. P. L.
10	"	- 0.2	0.0	+ 0.40	+ 0.44	+ 0.04	+ 0.33	
21	"	- 1.4	0.0	+ 0.43	+ 0.50	+ 0.03	+ 0.27	δ Urs. Min. & 35, 40, 43 R. P. L., 51 Cephei.
22	"	- 2.0	0.0	+ 0.33	+ 0.51	+ 0.04	+ 0.36	δ Urs. Min. & 35, 40 R. P. L.
23	"	- 2.1	0.0	+ 0.33	+ 0.51	+ 0.04	+ 0.36	δ Urs. Min. & 41 R. P. L., 51 Cephei.
24	"	- 2.0	0.0	+ 0.31	+ 0.50	+ 0.03	+ 0.33	δ Urs. Min. and 51 Cephei.
28	"	- 1.9	0.0	+ 0.37	+ 0.50	+ 0.03	+ 0.32	δ Urs. Min. & 51 Cephei.
30	"	- 2.3	0.0	+ 0.45	+ 0.46	+ 0.04	+ 0.29	δ Urs. Min. and 49 R. P. L.
31	"	- 3.2	0.0	+ 0.47	+ 0.44	+ 0.03	+ 0.30	δ Urs. Min., 24 Urs. Min. & 49 R. P. L.
Feb. 2	R	- 3.3	0.0	+ 0.35	+ 0.45	+ 0.04	+ 0.26	δ Urs. Min., 24 Urs. Min. & 60 R. P. L.
5	"	- 3.5	0.0	+ 0.36	+ 0.43	+ 0.04	+ 0.36	δ Urs. Min. & 60 R. P. L.
7	"	- 5.3	0.0	+ 0.42	+ 0.41	+ 0.02	+ 0.23	24 Urs. Min. & 70 R. P. L.
9	"	- 5.3	0.0	+ 0.41	+ 0.43	+ 0.02	+ 0.26	λ Urs. Min. & 70 R. P. L.
13	"	- 5.9	0.0	+ 0.42	+ 0.49	+ 0.04	+ 0.29	λ Urs. Min. & 70 R. P. L.
16	"	- 5.9	0.0	+ 0.39	+ 0.59	+ 0.03	+ 0.28	λ Urs. Min. & 70 R. P. L.
19	"	- 6.9	0.0	+ 0.32	+ 0.56	+ 0.04	+ 0.24	
22	"	- 7.0	0.0	+ 0.33	+ 0.52	+ 0.02	+ 0.21	
26	"	- 7.0	0.0	+ 0.37	+ 0.56	+ 0.04	+ 0.17	ζ Argus & 70 R. P. L.
29	"	- 7.7	0.0	+ 0.43	+ 0.50	+ 0.02	+ 0.15	
Apl. 16	"	- 7.0	0.0	+ 0.40	+ 0.75	+ 0.04	+ 0.34	153 and 70, 89 R. P. L.
17	"	- 7.6	0.0	+ 0.34	+ 0.76	+ 0.04	+ 0.24	14 & 72, 89, 92, 99 R. P. L.
18	"	- 7.4	0.0	+ 0.40	+ 0.75	+ 0.03	+ 0.24	155 & 72, 89, 99 R. P. L.
19	"	- 7.4	0.0	+ 0.38	+ 0.76	+ 0.04	+ 0.27	155 & 89 R. P. L.
21	"	- 8.4	0.0	+ 0.39	+ 0.78	+ 0.03	+ 0.23	155 & 72 R. P. L.
22	"	- 7.5	0.0	+ 0.43	+ 0.73	+ 0.02	+ 0.19	Polaris & 72, 93 R. P. L.
23	"	- 8.5	0.0	+ 0.43	+ 0.72	+ 0.02	+ 0.22	
24	"	- 8.9	0.0	+ 0.40	+ 0.72	+ 0.02	+ 0.24	10 R. P. L., Polaris & 93 R. P. L.
25	"	- 8.4	0.0	+ 0.50	+ 0.74	+ 0.04	+ 0.24	Polaris & 97 R. P. L.
26	"	- 8.5	0.0	+ 0.45	+ 0.73	+ 0.01	+ 0.23	
28	"	- 7.1	0.0	+ 0.51	+ 0.75	+ 0.04	+ 0.20	158 & 103 R. P. L.
29	"	- 7.8	0.0	+ 0.51	+ 0.74	+ 0.02	+ 0.20	
30	"	- 7.5	0.0	+ 0.54	+ 0.73	+ 0.03	+ 0.21	
May 1	M	- 7.0	0.0	+ 0.58	+ 0.75	+ 0.04	+ 0.21	
2	"	- 6.3	0.0	+ 0.56	+ 0.75	+ 0.03	+ 0.21	
June 20	M	- 7.0	0.0	+ 0.63	+ 0.79	+ 0.03	+ 0.37	34 & 115 R. P. L.
21	"	- 5.7	0.0	+ 0.61	+ 0.78	+ 0.04	+ 0.46	33, 43 & 108, 120 R. P. L.
23	R	- 5.6	0.0	+ 0.57	+ 0.77	+ 0.04	+ 0.42	
24	"	- 5.7	0.0	+ 0.46	+ 0.79	+ 0.03	+ 0.41	34 & 111, 116 R. P. L.
25	"	- 5.2	0.0	+ 0.42	+ 0.82	+ 0.03	+ 0.42	
26	"	- 6.9	0.0	+ 0.54	+ 0.79	+ 0.02	+ 0.44	
28	"	- 5.6	0.0	+ 0.55	+ 0.80	+ 0.03	+ 0.35	34 & 108, 111 R. P. L.
July 14	M	- 4.9	0.0	- 0.34	+ 0.78	+ 0.03	+ 0.48	97 & 111, 114, 118 R. P. L.
17	"	- 5.1	0.0	- 0.17	+ 0.79	+ 0.03	+ 0.42	34 & 111, 114 R. P. L.
18	"	- 5.5	0.0	- 0.17	+ 0.81	+ 0.04	+ 0.52	43 & 111, 120 R. P. L.

Instrumental Corrections adopted in 1884.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
July 19	"	- 5.1	0.0	- 0.21	+ 0.80	+ 0.03	+ 0.52	
22	"	- 5.2	0.0	- 0.20	+ 0.80	+ 0.04	+ 0.53	
23	"	- 5.5	0.0	- 0.17	+ 0.80	+ 0.03	+ 0.54	
24	"	- 5.3	0.0	- 0.15	+ 0.78	+ 0.03	+ 0.54	
25	"	- 4.9	0.0	- 0.09	+ 0.77	+ 0.04	+ 0.54	
26	"	- 6.1	0.0	- 0.06	+ 0.77	+ 0.04	+ 0.55	
Aug. 2	R	- 4.6	0.0	- 0.08	+ 0.72	+ 0.04	+ 0.57	
4	"	- 5.0	0.0	- 0.11	+ 0.74	+ 0.04	+ 0.58	
5	"	- 4.4	0.0	- 0.15	+ 0.75	+ 0.04	+ 0.58	λ Sagittarii & 24 Urs. Min
7	"	- 4.9	0.0	- 0.21	+ 0.75	+ 0.02	+ 0.65	51 Cephei & 143 R. P. L.
8	"	- 4.6	0.0	- 0.22	+ 0.76	+ 0.03	+ 0.66	
11	"	- 4.6	0.0	- 0.18	+ 0.75	+ 0.02	+ 0.65	
12	"	- 5.0	0.0	- 0.20	+ 0.75	+ 0.03	+ 0.68	
13	"	- 4.2	0.0	- 0.13	+ 0.75	+ 0.04	+ 0.69	51 Cephei 131 R. P. L.
14	"	- 4.7	0.0	- 0.17	+ 0.72	+ 0.02	+ 0.68	
15	"	- 5.1	0.0	- 0.10	+ 0.71	+ 0.04	+ 0.67	
16	"	- 3.9	0.0	0.00	+ 0.73	+ 0.04	+ 0.67	
18	"	- 4.5	0.0	- 0.22	+ 0.73	+ 0.03	+ 0.65	49 R.P.L. & 24 Urs. Min.
19	"	- 4.6	0.0	- 0.25	+ 0.75	+ 0.02	+ 0.61	51 Cephei & 24 Urs. Min.
20	"	- 4.5	0.0	- 0.33	+ 0.74	+ 0.03	+ 0.68	51 Cephei & 24 Urs Min., 143 R. P. L.
21	"	- 4.4	0.0	- 0.30	+ 0.74	+ 0.03	+ 0.69	θ Capricorni & 24 Urs.Min.
23	"	- 4.3	0.0	- 0.30	+ 0.75	+ 0.04	+ 0.68	
25	"	- 3.0	0.0	- 0.29	+ 0.75	+ 0.03	+ 0.69	
26	"	- 4.3	0.0	- 0.29	+ 0.73	+ 0.03	+ 0.70	
28	"	- 3.1	0.0	- 0.34	+ 0.75	+ 0.02	+ 0.71	
Sep. 1	"	- 4.7	- 0.1	- 0.35	+ 0.73	+ 0.04	+ 0.72	
8	"	- 4.1	- 0.1	- 0.34	+ 0.68	+ 0.03	+ 0.76	
10	"	- 4.1	- 0.1	- 0.32	+ 0.66	+ 0.03	+ 0.78	48, 53, 60 & 131, 143 R.P.L.
11	"	- 3.9	- 0.1	- 0.30	+ 0.64	+ 0.03	+ 0.76	48 & 24 Urs. Min., 131 R. P. L.
13	"	- 3.4	- 0.1	- 0.34	+ 0.63	+ 0.03	+ 0.70	45 R. P. L. & 24 Urs.Min., 131 R. P. L.
16	M	- 4.4	- 0.1	- 0.37	+ 0.60	+ 0.03	+ 0.65	45 R. P. L. & 24 Urs.Min., 131 R. P. L.
24	M	- 1.0	- 0.1	- 0.39	+ 0.55	+ 0.03	+ 0.63	48, 53, 60, 70, 72 R. P.L. & 24 Ursæ Minoris, 131 R. P. L.
25	"	- 1.1	- 0.1	- 0.34	+ 0.55	+ 0.03	+ 0.69	β Aquarii & λ Urs. Minoris.
26	"	- 1.3	- 0.1	- 0.36	+ 0.55	+ 0.03	+ 0.67	
Oct. 1	"	- 1.3	- 0.1	- 0.41	+ 0.53	+ 0.04	+ 0.58	62, 69, 72; 79 & 150 R.P.L.
2	"	- 0.9	- 0.1	- 0.38	+ 0.52	+ 0.03	+ 0.55	55, 79, & 151 R. P. L.
3	"	- 1.2	- 0.1	- 0.37	+ 0.52	+ 0.04	+ 0.58	45, 55, 60 & 62 R. P. L., 24 Cephei 151 R. P. L.
4	"	- 1.7	- 0.1	- 0.34	+ 0.52	+ 0.03	+ 0.57	48, 62, 79 & 153 R. P. L.
6	"	- 1.4	- 0.1	- 0.54	+ 0.51	+ 0.03	+ 0.59	45, 69, 79 & 153 R. P. L.
7	"	- 1.2	- 0.1	- 0.54	+ 0.52	+ 0.04	+ 0.63	45 & 153 R.P.L.
8	"	- 2.5	- 0.1	- 0.46	+ 0.50	+ 0.03	+ 0.57	45, 62, 79 & 153 R. P. L.
9	"	- 2.3	- 0.1	- 0.45	+ 0.52	+ 0.04	+ 0.60	45, 79 & 153 R. P. L.
10	"	- 2.0	- 0.1	- 0.43	+ 0.50	+ 0.03	+ 0.59	45, 79 & 153 R. P. L.
11	"	- 2.4	- 0.1	- 0.43	+ 0.49	+ 0.03	+ 0.58	49 R. P. L. & λ Urs. Min.
13	"	- 2.1	- 0.1	- 0.47	+ 0.49	+ 0.04	+ 0.62	49 R. P. L. & λ Urs. Min.
21	"	+ 5.7	- 0.1	- 0.52	+ 0.15	+ 0.03	+ 0.50	
22	"	+ 6.4	- 0.1	- 0.51	+ 0.18	+ 0.03	+ 0.48	
27	"	+ 7.8	- 0.1	- 0.69	+ 0.26	+ 0.03	+ 0.50	ϵ Aquarii & 153 R. P. L.

Instrumental Corrections adopted in 1884.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
28	"	+ 7.3	- 0.1	- 0.72	+ 0.27	+ 0.04	+ 0.50	87, 92, 97 & 10 R.P.L.
Nov. 12	R	+ 6.2	+ 0.1	- 0.89	+ 1.01	+ 0.03	+ 0.53	
14	"	+ 7.6	+ 0.1	- 1.01	+ 1.10	+ 0.03	+ 0.54	
15	"	+ 7.6	+ 0.1	- 0.96	+ 1.03	+ 0.02	+ 0.54	
17	"	+ 7.7	+ 0.1	- 0.94	+ 0.97	+ 0.04	+ 0.55	
18	"	+ 8.3	+ 0.1	- 1.03	+ 0.98	+ 0.03	+ 0.55	93, 10, & 18 R. P. L.
22	"	+ 7.6	+ 0.1	- 0.98	+ 0.94	+ 0.03	+ 0.55	
26	"	+ 8.4	+ 0.1	- 0.92	+ 0.93	+ 0.02	+ 0.55	87, 92 & 10 R.P.L., Polaris.
29	"	+ 9.1	+ 0.1	- 0.93	+ 0.95	+ 0.03	+ 0.52	
Dec. 1	"	+ 8.3	0.0	- 1.04	+ 0.94	+ 0.05	+ 0.57	87, 103 R. P. L. & 2 Ursæ Radclyffe & 10 R. P. L. Minoris.
3	M	+ 8.4	0.0	- 1.07	+ 0.91	+ 0.04	+ 0.50	100, 103 & 10 R. P. L.
4	"	+ 8.5	0.0	- 1.04	+ 0.89	+ 0.04	+ 0.49	100, 103 & 10 R. P. L.
11	"	+ 6.8	0.0	- 0.99	+ 0.78	+ 0.04	+ 0.43	100, 103 & 10 R. P. L.
12	"	+ 6.3	0.0	- 1.10	+ 0.76	+ 0.04	+ 0.46	100, & 10 R. P. L.
23	R	+ 12.6	0.0	- 1.03	+ 1.17	+ 0.03	+ 0.47	100, & 10 R. P. L.
24	"	+ 13.9	0.0	- 1.02	+ 1.32	+ 0.03	+ 0.52	101 & 10 R. P. L.
26	"	+ 13.3	0.0	- 0.97	+ 1.32	+ 0.02	+ 0.54	
27	"	+ 13.6	0.0	- 0.99	+ 1.32	+ 0.02	+ 0.55	101 & 10 R. P. L.
29	M	+ 13.8	0.0	- 1.00	+ 1.35	+ 0.03	+ 0.45	103 & 10 R. P. L.
30	"	+ 12.0	0.0	- 0.89	+ 1.34	+ 0.04	+ 0.56	103 & 10 R. P. L.
31	"	+ 11.8	0.0	- 0.80	+ 1.33	+ 0.04	+ 0.45	

Instrumental Corrections adopted in 1885.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 1	M	+10.6	-0.5	+0.22	+1.32	+0.03	+0.42	10 and 110 R. P. L.
2	"	+12.0	-0.5	+0.24	+1.31	+0.03	+0.41	
5	R	+11.0	-0.5	+0.20	+1.16	+0.02	+0.39	
8	"	+9.9	-0.5	+0.01	+1.06	+0.03	+0.36	37 and 110 R. P. L.
10	"	+9.1	-0.5	-0.02	+1.02	+0.03	+0.35	
14	"	+8.4	-0.5	+0.09	+0.90	+0.04	+0.34	37 and 110 R. P. L.
17	"	+6.8	-0.5	+0.12	+0.87	+0.05	+0.35	37 and 110 R. P. L.
20	"	+6.0	-0.5	+0.15	+0.84	+0.02	+0.30	37 and 110 R. P. L.
28	"	+5.8	-0.5	+0.13	+0.81	+0.03	+0.26	37 R. P. L. and μ Eridani.
26	"	+4.2	-0.5	+0.14	+0.74	+0.03	+0.32	37 R. P. L. and δ Urs. Min.
29	"	+3.7	-0.5	+0.17	+0.78	+0.04	+0.32	37 R. P. L. and δ Urs. Min.
31	"	+4.2	-0.5	+0.15	+0.77	+0.02	+0.30	
Feb. 3	M	+1.3	+0.3	+0.11	+0.82	+0.03	+0.26	
6	"	+0.5	+0.3	+0.15	+0.80	+0.03	+0.23	37 R. P. L. and δ Urs. Min.
9	"	-0.8	+0.3	+0.12	+0.80	+0.03	+0.20	
10	"	-1.3	+0.3	+0.14	+0.78	+0.02	+0.19	37 R. P. L. and δ Urs. Min.
11	"	-1.2	+0.3	+0.20	+0.80	+0.03	+0.20	
12	"	-0.6	+0.3	+0.12	+0.81	+0.02	+0.22	
13	"	-0.9	+0.3	+0.12	+0.82	+0.03	+0.23	
14	"	-1.9	+0.3	+0.18	+0.88	+0.02	+0.24	37 R. P. L. and δ Urs. Min.
16	"	-2.0	+0.3	+0.17	+0.80	+0.02	+0.23	
17	"	-1.8	+0.3	+0.19	+0.81	+0.02	+0.22	
18	R	-1.4	+0.3	+0.07	+0.80	+0.03	+0.21	
19	M	-2.1	+0.3	+0.07	+0.82	+0.02	+0.20	
20	"	-1.9	+0.3	+0.18	+0.86	+0.02	+0.20	37 R. P. L. and δ Urs. Min.
23	"	-2.9	+0.3	+0.16	+0.87	+0.03	+0.18	
26	"	-3.0	+0.3	+0.14	+0.84	+0.02	+0.17	51 Cephei & δ Urs. Min.
28	"	-3.0	+0.3	+0.19	+0.83	+0.02	+0.19	
Mar. 3	R	-3.2	+0.1	+0.18	+0.81	+0.04	+0.21	51 Cephei & δ Urs. Min.
6	"	-2.0	+0.1	+0.13	+0.89	+0.04	+0.24	51 Cephei & δ Urs. Min.
9	"	-3.3	+0.1	+0.14	+0.83	+0.03	+0.22	
12	"	-3.6	+0.1	+0.15	+0.85	+0.03	+0.20	51 Cephei & δ Urs. Min.
14	"	-4.0	+0.1	+0.16	+0.84	+0.03	+0.20	
17	M	-4.6	+0.1	+0.12	+0.88	+0.03	+0.19	
20	"	-4.3	+0.1	+0.12	+0.89	+0.03	+0.19	51 Cephei & λ Urs. Min.
23	R	-3.5	+0.1	+0.17	+0.85	+0.03	+0.19	51 Cephei & λ Urs. Min.
26	"	-3.3	+0.1	+0.20	+0.87	+0.02	+0.18	51 Cephei & λ Urs. Min.
28	"	-3.3	+0.1	+0.18	+0.86	+0.02	+0.19	51 Cephei & λ Urs. Min.
30	"	-3.8	+0.1	+0.13	+0.88	+0.03	+0.21	51 Cephei & λ Urs. Min.
Apl. 1	"	-3.4	+0.3	+0.10	+0.88	+0.03	+0.20	51 Cephei & λ Urs. Min.
3	"	-3.1	+0.3	+0.06	+0.88	+0.02	+0.19	
8	M	-3.7	+0.3	+0.07	+0.91	+0.02	+0.17	
11	"	-3.6	+0.3	+0.08	+0.96	+0.03	+0.16	
14	"	-3.4	+0.3	+0.08	+0.97	+0.02	+0.15	72 and 155 R. P. L.
17	"	-3.4	+0.3	+0.08	+0.96	+0.02	+0.12	72 and 155 R. P. L.
Apl. 21	M	-3.8	+0.3	+0.09	+0.96	+0.02	+0.14	72 and 155 R. P. L.
24	"	-3.5	+0.3	+0.10	+0.96	+0.03	+0.13	72 and 155 R. P. L.
28	"	-3.3	+0.3	+0.13	+0.97	+0.02	+0.11	72 and 155 R. P. L.
May 1	R	-3.1	-0.1	+0.11	+0.98	+0.03	+0.13	72 and 155 R. P. L.
5	"	-3.5	-0.1	+0.08	+1.02	+0.03	+0.16	
7	"	-3.0	-0.1	+0.08	+1.03	+0.02	+0.13	
9	"	-3.2	-0.1	+0.10	+1.03	+0.03	+0.19	72 and 155 R. P. L.
11	"	-3.5	-0.1	+0.08	+1.05	+0.02	+0.22	
13	"	-2.9	-0.1	+0.07	+1.12	+0.04	+0.25	72 and 155 R. P. L.

Instrumental Corrections adopted in 1885.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars
		"	"	s	s	s	s	
May 15	R	- 2.8	- 0.1	+ 0.07	+ 1.11	+ 0.03	+ 0.25	92 and 155 R. P. L. 92 and 155 R. P. L.
18	"	- 3.0	- 0.1	+ 0.04	+ 1.13	+ 0.03	+ 0.25	
20	"	- 3.1	- 0.1	+ 0.02	+ 1.12	+ 0.02	+ 0.25	
22	"	- 2.8	- 0.1	+ 0.03	+ 1.12	+ 0.03	+ 0.25	
25	"	- 3.4	- 0.1	+ 0.04	+ 1.10	+ 0.03	+ 0.24	
28	"	- 2.4	- 0.1	0.00	+ 1.12	+ 0.03	+ 0.23	
30	"	- 3.2	- 0.1	- 0.01	+ 1.11	+ 0.01	+ 0.23	
June 2	M	- 1.3	+ 0.2	- 0.05	+ 1.16	+ 0.03	+ 0.22	
5	"	- 2.7	+ 0.2	- 0.08	+ 1.11	+ 0.02	+ 0.21	
Aug. 5	R	- 2.8	0.0	+ 0.13	+ 1.11	+ 0.04	+ 0.46	51 Cephei & 72 Ophiuchi.
7	"	- 3.2	0.0	+ 0.12	+ 1.17	+ 0.02	+ 0.47	
15	"	- 2.2	0.0	+ 0.11	+ 1.15	+ 0.06	+ 0.50	51 Cephei & 8 Urs. Min.
17	"	- 3.5	0.0	+ 0.04	+ 1.11	+ 0.02	+ 0.51	
20	"	- 2.4	0.0	- 0.02	+ 1.08	+ 0.02	+ 0.51	
Sep. 7	"	- 2.1	+ 0.2	+ 0.18	+ 1.04	+ 0.03	+ 0.53	51 Cephei & 8 Urs. Min.
12	"	- 2.8	+ 0.2	+ 0.15	+ 1.06	+ 0.02	+ 0.54	
15	"	- 2.4	+ 0.2	+ 0.07	+ 1.00	+ 0.02	+ 0.54	72 R. P. L. & 8 Urs. Min.
18	"	- 2.1	+ 0.2	- 0.01	+ 0.95	+ 0.03	+ 0.55	
25	"	+ 0.5	+ 0.2	- 0.11	+ 0.92	+ 0.02	+ 0.55	
29	"	- 0.3	+ 0.2	- 0.21	+ 0.95	+ 0.02	+ 0.57	
Oct. 1	M	+ 0.9	0.0	- 0.22	+ 0.98	+ 0.03	+ 0.57	
3	"	+ 1.6	0.0	- 0.17	+ 0.95	+ 0.03	+ 0.57	
5	"	+ 0.7	0.0	- 0.13	+ 0.94	+ 0.03	+ 0.58	72 and 155 R. P. L.
7	"	+ 0.3	0.0	- 0.13	+ 0.93	+ 0.03	+ 0.58	
9	"	+ 2.6	0.0	- 0.37	+ 0.90	+ 0.02	+ 0.55	72 R. P. L. and 8 Aquarii.
14	"	+ 2.9	0.0	- 0.48	+ 0.86	+ 0.03	+ 0.47	
16	"	+ 3.1	0.0	- 0.39	+ 0.86	+ 0.03	+ 0.55	
19	"	+ 1.9	0.0	- 0.37	+ 0.89	+ 0.03	+ 0.55	
21	"	+ 2.3	0.0	- 0.37	+ 0.88	+ 0.03	+ 0.55	
23	"	+ 2.8	0.0	- 0.35	+ 0.89	+ 0.03	+ 0.55	
Dec. 28	R	+ 7.0	0.0	- 1.33	+ 0.89	+ 0.03	+ 0.52	

Instrumental Corrections adopted in 1886.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
Jan. 1	M	+ 5.5	0.0	- 1.30	+ 0.85	+ 0.03	+ 0.49	37 and 110 R. P. L.
7	R	+ 4.6	0.0	- 1.29	+ 0.92	+ 0.08	+ 0.43	
15	"	+ 3.6	0.0	- 1.43	+ 0.84	+ 0.04	+ 0.36	51 Cephei & 3 Urs. Min.
19	"	+ 1.9	0.0	- 1.33	+ 0.84	+ 0.04	+ 0.36	
24	"	- 0.2	0.0	- 0.20	- 0.03	+ 0.06	+ 0.35	51 Cephei & 3 Urs. Min.
26	"	- 0.2	0.0	+ 0.19	- 0.04	+ 0.23	+ 0.25	
27	"	- 0.2	0.0	+ 0.23	- 0.05	+ 0.40	+ 0.39	
29	"	- 0.2	0.0	+ 0.63	- 0.06	+ 0.62	+ 0.51	37 and 40 R. P. L. 51 Cephei & 3 Urs. Min.
30	"	- 0.3	0.0	+ 0.65	+ 0.07	+ 0.02	+ 0.49	37 and 40 R. P. L. 51 Cephei & 3 Urs. Min.
Feb. 1	"	- 2.4	- 0.3	+ 0.65	+ 0.11	+ 0.03	+ 0.64	37 and 40 R. P. L., λ Ursæ Minoris.
3	"	+ 0.1	- 0.3	+ 0.70	+ 0.09	+ 0.04	+ 0.69	
6	"	- 2.2	- 0.3	+ 0.70	+ 0.07	+ 0.08	+ 0.76	
13	M	- 7.1	- 0.3	+ 0.85	+ 0.05	+ 0.10	+ 0.53	51 Cephei & λ Urs. Min.
15	"	- 7.7	- 0.3	+ 0.76	+ 0.02	+ 0.07	+ 0.52	51 Cephei & λ Urs. Min.
17	"	- 7.3	- 0.3	+ 0.76	+ 0.03	+ 0.07	+ 0.54	51 Cephei & λ Urs. Min.
20	"	- 7.5	- 0.3	+ 0.84	+ 0.03	+ 0.06	+ 0.53	
22	"	- 7.5	- 0.3	+ 0.89	+ 0.05	+ 0.04	+ 0.49	51 Cephei & λ Urs. Min.
25	"	- 7.4	- 0.3	+ 0.93	+ 0.06	+ 0.05	+ 0.49	
Apr. 2	R	- 7.5	0.0	+ 0.91	+ 0.28	+ 0.07	+ 0.53	72 and 155 R. P. L.
5	"	- 6.4	0.0	+ 0.84	+ 0.30	+ 0.06	+ 0.47	
7	"	- 6.6	0.0	+ 0.91	+ 0.26	+ 0.07	+ 0.43	
9	"	- 7.4	0.0	+ 0.90	+ 0.22	+ 0.05	+ 0.39	72 and 155 R. P. L.
12	"	- 7.0	0.0	+ 0.85	+ 0.23	+ 0.06	+ 0.40	
14	"	- 6.8	0.0	+ 0.86	+ 0.23	+ 0.06	+ 0.41	
16	"	- 7.1	0.0	+ 0.81	+ 0.24	+ 0.05	+ 0.41	
19	"	- 7.2	0.0	+ 0.83	+ 0.28	+ 0.06	+ 0.42	92 and 155 R. P. L.
21	"	- 6.2	0.0	+ 0.81	+ 0.31	+ 0.13	+ 0.42	
24	"	- 6.5	0.0	+ 0.81	+ 0.33	+ 0.13	+ 0.42	
27	"	- 6.6	0.0	+ 0.91	+ 0.33	+ 0.10	+ 0.41	
29	"	- 6.2	0.0	+ 0.95	+ 0.27	+ 0.03	+ 0.41	92 and 155 R. P. L.
May 1	"	- 6.9	0.0	+ 0.92	+ 0.26	+ 0.07	+ 0.42	
4	"	- 7.2	0.0	+ 0.91	+ 0.28	+ 0.07	+ 0.44	
6	"	- 6.1	0.0	+ 0.91	+ 0.29	+ 0.07	+ 0.45	
8	"	- 6.8	0.0	+ 0.92	+ 0.34	+ 0.05	+ 0.46	
10	"	- 5.9	0.0	+ 1.00	+ 0.36	+ 0.04	+ 0.47	92 and 155 R. P. L.
June 7	M	- 0.2	- 0.1	+ 0.75	+ 0.23	+ 0.04	+ 0.49	
11	"	+ 0.8	- 0.1	+ 0.72	+ 0.16	+ 0.05	+ 0.49	Polaris and 92 R. P. L.
18	"	+ 2.0	- 0.1	+ 0.75	+ 0.18	+ 0.07	+ 0.47	
22	"	+ 0.3	- 0.1	+ 0.88	+ 0.14	+ 0.07	+ 0.43	Polaris and ρ Bootis.
25	"	+ 1.3	- 0.1	+ 0.92	+ 0.12	+ 0.07	+ 0.43	
Aug. 4	R	+ 6.6	0.0	+ 0.71	+ 0.06	+ 0.07	+ 0.50	51 Cephei & 3 Urs. Min.
Sep. 1	M	- 0.1	0.0	+ 0.47	+ 0.13	+ 0.12	+ 0.46	
4	"	- 1.0	0.0	+ 0.52	+ 0.15	+ 0.11	+ 0.44	51 Cephei & λ Urs. Min.
11	"	- 2.2	0.0	+ 0.62	+ 0.12	+ 0.11	+ 0.49	
15	"	- 2.3	0.0	+ 0.59	+ 0.16	+ 0.12	+ 0.51	
18	"	- 2.3	0.0	+ 0.64	+ 0.18	+ 0.12	+ 0.52	
22	"	- 3.0	0.0	+ 0.71	+ 0.18	+ 0.11	+ 0.54	
25	"	- 1.9	0.0	+ 0.76	+ 0.17	+ 0.11	+ 0.56	51 Cephei & λ Urs. Min.
Dec. 11	R	+ 4.4	0.0	+ 0.15	- 0.06	+ 0.06	+ 0.41	110 R. P. L. and Polaris.
24	"	- 0.3	0.0	+ 0.12	+ 0.01	+ 0.07	+ 0.56	110 R. P. L. and Polaris.
28	M	- 2.4	0.0	+ 0.23	+ 0.03	+ 0.07	+ 0.44	37 and 110 R. P. L.

Instrumental Corrections adopted in 1887.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		"	"	s	s	s	s	
Jan. 7	M	- 4.9	0.0	+ 0.15	+ 0.06	+ 0.09	+ 0.38	110 and 37 R. P. L.
11	"	- 5.4	0.0	+ 0.20	+ 0.07	+ 0.11	+ 0.39	
14	R	- 6.6	0.0	+ 0.22	+ 0.10	+ 0.11	+ 0.40	
18	M	- 6.8	0.0	+ 0.24	+ 0.10	+ 0.12	+ 0.41	
21	"	- 7.0	0.0	+ 0.26	+ 0.10	+ 0.12	+ 0.42	
25	R	- 7.7	0.0	+ 0.26	+ 0.09	+ 0.10	+ 0.44	
28	M	- 8.0	0.0	+ 0.29	+ 0.12	+ 0.11	+ 0.45	
								♂ Urs. Min. and 37 R. P. L.
Feb. 18	R	- 7.9	0.0	+ 0.41	+ 0.15	+ 0.12	+ 0.40	♂ Urs. Min. and 40 R. P. L.
22	M	- 9.0	0.0	+ 0.43	+ 0.12	+ 0.12	+ 0.39	♂ Urs. Min. and 51 Cephei
25	R	- 8.9	0.0	+ 0.46	+ 0.14	+ 0.12	+ 0.37	
Mar. 1	R	- 9.2	+ 0.2	- 0.05	+ 0.20	+ 0.09	+ 0.38	♂ Urs. Min. and 51 Cephei
4	M	- 9.2	+ 0.2	- 0.15	+ 0.22	+ 0.10	+ 0.38	
Apl. 1	M	- 6.9	- 0.1	- 0.22	+ 0.33	+ 0.12	+ 0.35	λ Urs. Min. and 51 Cephei
8	"	- 7.0	- 0.1	- 0.13	+ 0.36	+ 0.09	+ 0.33	
26	R	- 6.5	- 0.1	- 0.14	+ 0.31	+ 0.07	+ 0.27	155 and 72 R. P. L.
29	M	- 5.2	- 0.1	- 0.10	+ 0.32	+ 0.06	+ 0.20	
May 3	R	- 5.0	0.0	- 0.07	+ 0.37	0.00	+ 0.31	155 and 92 R. P. L.
6	"	- 6.4	0.0	- 0.08	+ 0.36	+ 0.04	+ 0.33	
10	"	- 5.1	0.0	- 0.06	+ 0.37	+ 0.08	+ 0.35	
16	"	- 3.6	0.0	- 0.05	+ 0.48	+ 0.05	+ 0.39	
20	"	- 6.4	0.0	- 0.04	+ 0.44	+ 0.09	+ 0.44	
24	"	- 3.9	0.0	+ 0.01	+ 0.50	+ 0.05	+ 0.50	
27	"	- 4.0	0.0	+ 0.08	+ 0.47	+ 0.04	+ 0.54	
31	"	- 3.1	0.0	+ 0.15	+ 0.41	+ 0.04	+ 0.59	Polaris and 92 R. P. L.
June 3	M	- 3.6	0.0	+ 0.18	+ 0.43	+ 0.04	+ 0.55	Polaris and 110 R. P. L. Polaris and 110 R. P. L.
7	"	- 3.0	0.0	+ 0.01	+ 0.45	+ 0.04	+ 0.51	
10	"	- 4.8	0.0	- 0.04	+ 0.46	+ 0.04	+ 0.47	
14	"	- 3.1	0.0	+ 0.06	+ 0.41	+ 0.06	+ 0.42	
28	"	- 1.6	0.0	+ 0.12	+ 0.36	+ 0.05	+ 0.71	
July 1	"	- 0.2	0.0	+ 0.05	+ 0.34	+ 0.10	+ 0.67	ζ Ophiuchi and 110 R.P.L. 51 Cephei & ♂ Urs. Min.
12	"	- 1.0	0.0	- 0.47	+ 0.34	+ 0.10	+ 0.51	
22	"	- 0.2	0.0	- 0.19	+ 0.28	+ 0.08	+ 0.36	
29	"	- 0.1	0.0	- 0.08	+ 0.27	+ 0.09	+ 0.61	
Aug. 27	"	+ 4.7	0.0	- 0.78	+ 0.02	+ 0.03	+ 0.51	θ Ophiuchi and ♂ Urs. Min.
Oct. 1	R	+ 6.2	0.0	- 0.24	- 0.02	+ 0.09	+ 0.47	72 and 155 R. P. L.
5	"	+ 5.4	0.0	- 0.46	+ 0.05	+ 0.10	+ 0.47	
10	"	+ 8.0	0.0	- 0.42	+ 0.13	+ 0.10	+ 0.46	
Nov. 3	"	+ 9.5	0.0	- 0.82	+ 0.18	+ 0.11	+ 0.44	92 and 155 R. P. L.
7	"	+ 9.5	0.0	- 0.81	+ 0.19	+ 0.11	+ 0.44	
17	"	+ 10.9	0.0	- 1.06	+ 0.33	+ 0.13	+ 0.43	92 and 155 R. P. L.
21	"	+ 10.5	0.0	- 1.05	+ 0.32	+ 0.14	+ 0.43	
26	"	+ 11.7	0.0	- 1.09	+ 0.26	+ 0.16	+ 0.43	

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1884.			1883.			1884.			1885.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
ϵ Ceti	0	14	99 28	7	- 0'06	- 2'7	13	+ 0'04	+ 0'2	...	.....	.....
12 Ceti	0	24	94 36	...	.....	.....	2	+ 0'06	+ 1'1	...	.....	.....
β Ceti... ..	0	38	108 37	...	.....	.....	2	+ 0'05	+ 1'6	...	.....	.....
δ Piscium	0	43	83 3	7	+ 0'04	- 0'7	3	- 0'04	0'0	...	.....	.....
β Andromedæ	1	3	55 0	2	- 0'07	- 1'0	11	- 0'06	+ 0'1	1	0'0	- 0'7
α Urs. Min. (<i>Polaris</i>)..	1	16	1 19	14	+ 0'23	+ 0'3	6	+ 0'62	+ 0'7	...	.....	.....
θ Ceti... ..	1	18	98 47	2	- 0'04	+ 1'1	...	.....	.....	...	.....	.....
η Piscium	1	25	75 15	4	0'00	+ 0'1	1	- 0'12	- 0'7	...	.....	.....
α Eridani (<i>Achernar</i>)..	1	33	147 50	1	+ 0'27	+ 0'9	...	.....	...	...	.....	.....
ν Piscium	1	35	85 6	1	+ 0'04	- 0'7	...	.....	.....	...	.....	.....
ϕ Piscium	1	39	81 26	10	- 0'03	+ 0'8	10	0'00	- 0'8	...	.....	.....
β Arietis	1	48	69 46	13	+ 0'07	- 0'6	...	.....	.....	...	.....	.....
α Arietis	2	1	67 5	17	+ 0'01	+ 0'4	2	- 0'04	+ 0'1	...	.....	.....
67 Ceti	2	11	96 57	3	- 0'04	- 0'1	4	+ 0'05	+ 0'4	...	.....	.....
ξ^2 Ceti	2	22	82 4	1	+ 0'01	- 2'5	...	.....	.....	...	.....	.....
γ^3 Ceti	2	37	87 15	2	0'00	- 1'2	...	.....	.....	...	.....	.....
σ Arietis	2	45	75 24	7	+ 0'03	- 1'1	13	+ 0'02	- 2'2	...	.....	.....
α Ceti	2	56	86 22	7	- 0'04	- 1'0	2	+ 0'07	+ 1'0	...	.....	.....
δ Arietis	3	5	70 43	7	- 0'04	- 1'0	8	- 0'04	+ 0'3	...	.....	.....
α Persei	3	16	40 33	3	- 0'13	- 0'4	...	.....	.....	...	.....	.....
ϕ Tauri	3	19	81 23	6	- 0'05	- 1'3	6	- 0'04	- 0'3	8	+ 0'01	- 0'7
ϵ Eridani	3	27	99 51	6	+ 0'07	+ 0'1	...	.....	...	9	- 0'01	- 0'5
η Tauri	3	41	66 15	4	+ 0'03	- 0'7	2	- 0'02	+ 2'1	...	.....	.....
γ^1 Eridani	3	53	103 50	...	.....	.....	6	+ 0'02	+ 0'8	...	.....	.....
A Tauri	3	58	68 14	16	+ 0'01	- 0'7	...	.....	.....	9	+ 0'02	- 1'0
ϕ^1 Eridani	4	6	97 8	1	+ 0'07	- 2'3	...	.....	.....	...	.....	.....
γ Tauri	4	13	74 39	13	- 0'01	0'0	...	.....	.....	...	.....	.....
ϵ Tauri	4	22	71 5	2	+ 0'05	+ 0'1	3	- 0'06	- 0'1	...	.....	.....
α Tauri (<i>Aldebaran</i>)...	4	29	73 44	8	+ 0'02	- 0'2	3	- 0'08	- 0'4	...	.....	.....
μ Eridani	4	40	93 28	...	.....	.....	...	.....	.....	10	+ 0'02	+ 0'5
ϵ Aurigæ	4	49	57 1	9	- 0'01	+ 1'6	...	.....	.....	...	.....	.....
α Aurigæ (<i>Capella</i>)...	5	8	44 7	9	- 0'17	- 2'3	...	.....	.....	...	.....	.....
β Orionis (<i>Rigel</i>)	5	9	98 20	8	- 0'02	- 1'1	1	+ 0'05	+ 1'8	...	.....	.....
β Tauri	5	19	61 30	4	- 0'03	- 0'1	1	- 0'10	+ 3'1	...	.....	.....
δ Orionis	5	26	90 23	1	+ 0'11	- 0'7	2	+ 0'05	- 2'5	10	+ 0'02	- 2'0

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1884.			1883.			1884.			1885.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
α Leporis ...	5	28	107 54	2	+ 0.02	+ 0.2	...	.....	.....	...	.....	.....
ϵ Orionis ...	5	30	91 17	...	.....	.....	1	+ 0.17	+ 1.5	10	- 0.01	+ 1.6
κ Orionis ...	5	42	99 43	4	+ 0.04	+ 1.5	...	.....	...	10	- 0.06	+ 1.4
α Orionis (<i>Var.</i>) ...	5	49	82 37	...	.....	.....	9	0.00	+ 0.7	...	.....	.....
η Geminorum ...	6	8	67 28	10	- 0.01	- 1.3	...	.....	.....	10	+ 0.02	- 1.4
μ Geminorum ...	6	16	67 26	...	.....	.....	1	- 0.06	+ 1.2	...	.....	.....
ξ Geminorum ...	6	30	76 59	10	- 0.01	- 0.9	...	.....	.....	10	+ 0.01	- 0.3
Cophei 51 (<i>Hev.</i>) ...	6	46	2 47	10	+ 0.18	- 0.7	8	+ 0.23	- 0.6	12	- 0.30	- 1.2
θ Canis Majoris ...	6	49	101 54	...	.....	.....	...	.....	.....	10	- 0.01	- 0.8
ϵ Canis Majoris ..	6	54	118 49	...	.....	.....	1	0.00	- 0.7	...	.....	.....
γ Canis Majoris ...	6	59	105 28	...	.....	.....	1	+ 0.06	- 2.4	...	.....	.....
β Canis Minoris ...	7	21	81 29	10	+ 0.02	- 1.6	...	.....	.....	10	+ 0.02	- 1.0
α Can. Min. (<i>Procyon</i>)	7	33	84 29	1	.....	.....	1	+ 0.05	- 1.4	...	.....	.....
ξ Argus ...	7	44	114 34	10	+ 0.04	- 1.2	10	- 0.10	+ 1.9	10	- 0.01	+ 2.6
15 Argus ...	8	3	113 53	...	.....	.....	9	- 0.09	- 0.3	...	.....	.....
β Cancri ...	8	10	80 27	...	.....	.....	...	.....	.....	10	0.00	- 1.5
η Cancri ...	8	26	69 10	...	.....	.....	2	+ 0.13	- 1.2	...	.....	.....
γ Cancri ...	8	37	68 7	10	- 0.03	+ 1.1	...	.....	.....	8	- 0.04	0.0
ϵ Hydræ ...	8	41	83 9	...	.....	.....	2	+ 0.03	- 1.1	...	.....	.....
α Cancri ...	8	52	77 42	...	.....	.....	1	+ 0.04	- 0.6	6	+ 0.01	- 0.2
κ Cancri ...	9	1	78 52	...	.....	.....	1	0.00	+ 0.5	...	.....	.....
83 Cancri ...	9	13	71 48	...	.....	.....	2	+ 0.16	- 2.5	...	.....	.....
ι Argus ...	9	14	148 47	10	+ 0.02	+ 2.5	...	.....	.....	...	.....	.....
α Hydræ ...	9	22	98 9	...	.....	.....	2	+ 0.07	- 0.6	...	.....	.....
ϕ Leonis ...	9	35	79 35	...	.....	.....	...	.....	.....	4	+ 0.02	+ 0.8
ϵ Leonis ...	9	39	65 42	...	.....	.....	2	+ 0.22	- 0.2	...	.....	.....
α Leonis (<i>Regulus.</i>) ...	10	2	77 28	...	.....	.....	3	+ 0.03	- 3.2	...	.....	.....
γ^1 Leonis ...	10	14	69 34	...	.....	.....	3	+ 0.02	- 1.0	...	.....	.....
μ Hydræ ...	10	20	106 15	...	.....	.....	...	.....	.....	10	- 0.04	- 1.1
ρ Leonis ...	10	27	80 6	...	.....	.....	1	- 0.04	- 1.8	...	.....	.....
ι Leonis ...	10	43	78 50	...	.....	.....	1	+ 0.02	- 1.9	...	.....	.....
δ Leonis ...	10	55	85 46	10	+ 0.02	- 1.0	...	.....	.....	10	+ 0.03	- 1.1
χ Leonis ...	10	59	82 2	...	.....	.....	2	+ 0.01	- 1.8	...	.....	.....
δ Leonis ...	11	8	68 50	...	.....	.....	2	+ 0.03	- 0.2	...	.....	.....
τ Leonis ..	11	22	86 30	10	+ 0.05	+ 0.7	10	- 0.01	- 0.9	8	+ 0.02	- 0.6

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1884.			1883.			1884.			1885.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
β Leonis ...	11	43	74 47	...	.....	.....	1	+ 0.07	- 0.8	...	.....	.....
π Virginis ...	11	55	82 44	10	- 0.05	- 1.1	10	0.00	- 2.2	10	+ 0.02	- 1.8
ϵ Corvi ...	12	4	111 58	...	.....	.....	1	- 0.15	- 1.7	...	.....	.....
η Virginis ...	12	14	90 1	...	.....	.....	3	- 0.08	+ 0.7	...	.....	.....
δ^2 Corvi ...	12	24	105 52	...	.....	.....	...	.....	.....	5	- 0.07	+ 0.7
δ Virginis ...	12	50	85 58	20	+ 0.02	- 3.2	...	.....	...	2	+ 0.03	- 2.3
ϵ Virginis ...	12	56	78 25	30	- 0.01	+ 0.1	10	+ 0.02	- 1.6	...	.....	.....
θ Virginis ...	13	4	94 55	11	+ 0.01	- 2.0	...	.....	.....	...	.....	.....
α Virginis (<i>Spica</i>) ...	13	19	100 33	...	.....	.....	1	- 0.08	- 1.4	...	.....	.....
ζ Virginis ...	13	29	90 0	10	+ 0.17	+ 2.4	...	.....	...	...	.....	.....
τ Bootis ...	13	42	71 58	10	- 0.03	- 3.2	...	.....	.....	...	.....	.....
η Ursæ Majoris ...	13	43	40 6	10	- 0.14	- 3.0	...	.....	.....	...	.....	.....
η Bootis ...	13	49	71 1	10	- 0.13	+ 1.8	1	+ 0.12	- 1.0	...	.....	.....
τ Virginis ...	13	56	87 54	...	.....	.....	2	+ 0.11	- 2.8	...	.....	.....
α Bootis (<i>Arcturus</i>) ...	14	10	70 13	...	.....	.....	3	+ 0.01	- 1.2	...	.....	.....
ρ Bootis ...	14	27	59 7	...	.....	.....	1	- 0.04	- 2.5	...	.....	.....
ϵ^2 Bootis ...	14	40	62 26	...	.....	.....	4	- 0.06	- 1.1	...	.....	.....
α Libræ ...	14	44	105 34	...	.....	.....	3	+ 0.09	- 4.0	...	.....	.....
β Ursæ Minoris ...	14	51	15 22	5	- 0.06	- 2.0	...	.....	.....	...	.....	.....
β Libræ ...	15	11	98 57	10	+ 0.05	- 0.5	3	- 0.02	+ 0.2	...	.....	.....
α Coronæ ...	15	30	62 54	...	.....	.....	7	- 0.05	- 0.4	...	.....	.....
α Serpentis ...	15	39	83 13	14	+ 0.01	- 0.9	10	+ 0.05	+ 0.3	...	.....	.....
ϵ Serpentis ...	15	45	85 10	10	0.00	- 1.9	...	.....	.....	...	.....	.....
ζ Ursæ Minoris ...	15	48	11 51	...	.....	.....	1	- 0.03	- 2.7	...	.....	.....
β^1 Scorpii ...	15	59	109 29	...	.....	.....	5	+ 0.05	- 0.6	...	.....	.....
δ Ophiuchi ...	16	8	93 24	...	.....	.....	2	- 0.03	- 0.8	...	.....	.....
γ Herculis ...	16	17	70 34	10	- 0.02	- 0.7	...	.....	.....	...	.....	.....
α Scorpii (<i>Antares</i>) ...	16	22	116 10	...	.....	.....	2	+ 0.02	+ 0.4	...	.....	.....
ζ Ophiuchi ...	16	31	100 20	20	+ 0.02	- 0.8	...	.....	...	...	.....	.....
ζ Herculis ...	16	37	58 11	...	.....	.....	3	- 0.13	+ 0.8	...	.....	.....
ϵ Ursæ Minoris ...	16	58	7 46	2	+ 0.11	- 2.9	1	- 0.30	+ 4.9	...	.....	.....
η Ophiuchi ...	17	4	105 35	20	+ 0.02	+ 0.1	...	.....	.....	5	+ 0.07	- 0.7
α^1 Herculis ...	17	9	75 29	...	.....	.....	3	+ 0.01	- 1.7	...	.....	.....
σ Ophiuchi ...	17	21	85 45	10	+ 0.02	+ 0.7	...	.....	.....	...	.....	.....
α Ophiuchi ...	17	30	77 21	...	.....	.....	1	+ 0.07	+ 1.1	...	.....	.....

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1884.			1883.			1884.			1885.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
β Ophiuchi ...	17	38	85 23	20	- 0.03	- 0.6	10	+ 0.01	- 0.9	5	- 0.06	+ 0.1
μ Herculis ...	17	42	02 13	...	.....	.....	4	- 0.02	- 0.4	...	.....	.....
72 Ophiuchi ...	18	2	80 27	...	.....	.....	10	- 0.01	- 1.5	4	- 0.01	- 1.9
μ Sagittarii ...	18	7	111 5	...	.....	.....	1	- 0.05	- 0.4	...	.....	.....
δ Ursæ Minoris ...	18	10	3 23	2	- 1.21	- 1.3	9	+ 0.14	+ 1.4	12	- 0.11	- 0.5
η Serpentis ...	18	15	92 56	20	+ 0.01	+ 1.5	...	.....	.....	1	- 0.01	+ 1.1
λ Sagittarii ...	18	21	115 29	20	+ 0.02	- 2.2	2	+ 0.18	- 2.1	1	- 0.05	- 1.3
α Lyrae (<i>Vega</i>) ...	18	33	51 19	...	.....	.....	6	- 0.14	- 1.8	...	.....	.....
β^1 Lyrae (<i>Var.</i>) ...	18	46	56 46	...	.....	.....	4	- 0.08	+ 0.1	...	.....	.....
ϵ Aquilæ ...	18	54	75 5	20	- 0.01	- 0.9	...	.....	.....	1	+ 0.05	- 1.7
ω Aquilæ ...	19	12	78 37	...	.....	.....	1	+ 0.05	- 0.8	...	.....	.....
δ Aquilæ ...	19	20	87 7	...	.....	.....	2	+ 0.02	- 0.5	...	.....	.....
λ Ursæ Minoris ...	19	40	1 3	...	.....	.....	5	- 0.63	+ 0.2	6	- 0.77	+ 0.6
γ Aquilæ ...	19	41	79 40	...	.....	.....	4	- 0.07	- 1.2	...	.....	.....
α Aquilæ (<i>Allair</i>) ...	19	45	81 26	...	.....	.....	3	+ 0.02	- 1.0	2	- 0.02	- 1.0
β Aquilæ ...	19	50	83 53	...	.....	.....	1	0.00	- 1.1	...	.....	.....
θ Aquilæ ...	20	5	91 10	20	- 0.01	- 0.4	20	+ 0.04	+ 0.2	10	+ 0.03	- 1.1
α^2 Capricorni ...	20	12	102 54	...	.....	.....	2	+ 0.12	- 2.9	...	.....	.....
ϵ Delphini ...	20	28	79 5	25	- 0.02	+ 0.6	10	- 0.03	+ 0.6	10	- 0.02	- 1.2
α Cygni ...	20	37	45 8	...	.....	.....	5	- 0.11	- 2.6	...	.....	.....
ϵ Aquarii ...	20	41	99 55	21	+ 0.02	0.0	10	- 0.06	+ 1.4	10	+ 0.04	- 0.5
32 Vulpeculæ ...	20	50	02 23	...	.....	.....	1	- 0.14	+ 2.1	...	.....	.....
θ Capricorni ...	20	59	107 42	20	- 0.01	+ 1.7	1	+ 0.05	- 0.9	6	- 0.06	+ 0.3
61 ¹ Cygni ...	21	2	51 49	...	.....	.....	2	+ 0.09	- 2.1	...	.....	.....
ζ Cygni ...	21	8	00 15	...	.....	.....	1	- 0.02	- 2.7	...	.....	.....
α Cephei ...	21	16	27 54	...	.....	.....	8	- 0.10	- 0.2	...	.....	.....
β Aquarii ...	21	25	96 5	...	.....	.....	2	+ 0.05	- 0.3	...	.....	.....
ϵ Pegasi ...	21	38	80 39	20	- 0.05	- 1.0	...	.....	.....	...	.....	.....
α Aquarii ...	22	0	90 53	21	+ 0.05	+ 0.7	1	+ 0.09	+ 1.4	...	.....	.....
θ Aquarii ...	22	11	98 22	23	+ 0.01	+ 0.3	...	.....	.....	...	.....	.....
γ Aquarii ...	22	16	91 58	10	0.00	- 0.4	10	+ 0.03	+ 1.7	4	0.00	+ 1.6
ζ Pegasi ...	22	36	79 46	...	.....	.....	2	- 0.02	+ 1.0	...	.....	.....
λ Aquarii ...	22	47	98 12	15	+ 0.02	+ 0.3	14	+ 0.05	+ 1.5	3	+ 0.02	+ 0.4
α Pis. Aus. <i>Fomalhaut</i> .	22	51	120 14	...	.....	.....	2	- 0.01	- 0.1	...	.....	.....
α Pegasi (<i>Markab</i>) ...	22	59	75 25	11	- 0.03	+ 1.6	..	.....	.....	...	.....	.....

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1884.		1883.			1884.			1885.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	<i>h. m.</i>	<i>° ' "</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>		<i>s</i>	<i>"</i>
γ Piscium ...	23 11	87 21	8	0 00	- 1 3	2	+ 0 04	+ 0 4	...	...	...
κ Piscium ...	23 21	89 23	...	...	...	1	- 0 04	+ 3 6	...	...	...
ι Piscium ...	23 34	85 0	...	...	...	1	- 0 09	+ 1 7	...	...	...
ω Piscium ...	23 53	83 47	...	...	...	1	+ 0 03	+ 0 7	...	...	...

ERRATA.

Page	No.	Subject	For	Read
<i>Errata in Vol. VII.</i>				
255	9	Precession in R. A.	2 8712	2 8702
257	69	"	2 7103	1 7103
287	566	"	3 9943	3 9936
<i>Errata in Vol. VIII.</i>				
80	62	Date ...	Sep.	Feb.
53	120	Sign of Precession in R. A.	-	+

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1883

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
1 Stone 8.										6 Stone 109.									
Nov. 14	7.0	0	1	22.53	...	116	0	14.0	M	Nov. 15	7.3	0	14	18.79	...	126	33	8.4	M
16	7.0		1	22.46	...		0	12.8	M	16	7.0		14	18.72	...		33	10.2	M
20	...		1	22.65	4		0	13.6	M	21	7.0		14	18.75	...		33	11.3	M
26	7.0		1	22.33	...		0	15.6	M	26	7.0		14	18.72	...		33	9.8	M
27	7.0		1	22.51	...		0	12.7	M	30	7.0		14	18.88	...		33	12.2	M
2 6 Ceti.										7 Taylor 78.									
Nov. 15	...	0	5	18.51	...	106	6	38.5	M	Nov. 14	7.0	0	18	31.02	...	92	52	1.6	M
29	...		5	18.40	...		6	35.4	M	20	6.7		18	30.94	...		52	1.2	M
Dec. 4	...		5	18.41	...		6	37.4	R	Dec. 4	6.7		18	31.00	...		51	59.1	R
5	...		5	18.31	...		6	37.3	R	5	6.7		18	31.06	...		51	59.0	R
6	...		5	18.43	...		6	38.9	R	6	6.7		18	30.99	...		51	59.1	R
3 Stone 63.										8 Stone 158.									
Nov. 16	...	0	7	48.55	...	116	56	18.1	M	Nov. 15	...	0	21	22.93	...	116	11	42.3	M
21	...		7	48.51	...		56	10.6	M	16	...		21	22.83	...		11	42.1	M
26	...		7	48.24	...		56	12.4	M	21	...		21	22.87	...		11	41.8	M
27	...		7	48.39	...		56	9.6	M	29	...		21	22.65	4		11	38.9	M
30	...		7	48.51	...		56	14.1	M	Dec. 7	...		21	22.67	...		11	40.1	R
4 Taylor 37.										9 Taylor 101.									
Nov. 14	...	0	10	13.79	...	122	5	41.5	M	Nov. 30	...	0	22	40.16	...	130	33	47.1	M
29	...		10	13.51	...		5	43.0	M	Dec. 4	...		22	40.20	...		33	43.5	R
Dec. 4	...		10	13.68	...		5	45.9	R	5	...		22	40.24	...		33	43.9	R
5	...		10	13.73	...		5	46.2	R	6	...		22	40.06	...		33	45.3	R
6	...		10	13.68	...		5	45.7	R	8	...		22	40.09	...		33	43.4	R
5 8 Ceti.										10 Taylor 115.									
Dec. 7	...	0	13	27.83	...	99	28	19.5	R	Nov. 14	...	0	24	31.62	5	114	26	8.4	M
8	...		13	27.84	...		28	20.0	R	16	...		24	31.82	3		26	7.8	M
17	...		13	27.85	...		28	20.2	R	20	...		24	31.52	...		26	7.3	M
18	...		13	27.79	...		28	20.4	R	21	...		24	31.65	4		26	7.7	M
19	...		13	27.72	...		28	20.8	R	26	...		24	31.79	3		26	7.1	M
20	...		13	27.81	...		28	19.9	R	11 Stone 237.									
22	...		13	27.80	...		28	19.1	R	Nov. 14	7.0	0	32	53.34	...	136	32	50.0	M
										15	7.0		32	53.48	...		32	47.8	M
										16	7.0		32	53.44	...		32	49.6	M
										20	...		32	53.45	8		32	50.7	M
										21	7.0		32	53.30	4		32	50.4	M

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. " " "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. " " "	Observer.
12 <i>Stone 240.</i>						19 <i>Taylor 252.</i>					
Dec. 17	7.0	0 38 16.88	...	133 56 18.4	R	Dec. 7	...	0 44 34.58	...	134 1 58.4	R
18	7.0	33 16.97	...	56 19.6	R	8	...	44 34.43	4	1 57.3	R
19	7.0	33 16.87	...	56 19.6	R	17	...	44 34.28	...	1 59.6	R
20	7.0	33 16.90	...	56 19.6	R	18	...	44 34.33	...	1 59.2	R
22	7.0	33 16.91	...	56 19.6	R	19	...	44 34.46	...	1 58.9	R
13 <i>Taylor 181.</i>						20 <i>Stone 342.</i>					
Nov. 5	...	0 84 16.83	...	135 26 24.7	M	Nov. 14	...	0 46 55.96	...	114 38 36.9	M
14 <i>Taylor 215.</i>						15	...	46 55.90	...	38 37.5	M
Nov. 14	...	0 39 25.06	...	133 18 51.6	M	16	...	46 55.96	...	38 38.1	M
15	...	39 25.09	...	18 51.8	M	20	...	46 55.91	...	38 37.6	M
16	...	39 25.01	...	18 51.5	M	21	...	46 55.75	...	38 36.3	M
21	...	39 24.99	...	18 52.8	M	21 <i>Stone 365.</i>					
23	...	39 25.15	...	18 53.4	M	Nov. 23	...	0 50 15.01	...	118 24 35.5	M
15 <i>W. B. E. O. 658.</i>						26	...	50 14.73	...	24 34.7	M
Dec. 4	9.1	0 39 36.26	...	88 55 54.4	R	27	...	50 14.96	...	24 34.8	M
16 <i>63 Piscium δ</i>						29	...	50 14.76	...	24 32.1	M
Nov. 26	...	0 42 36.66	...	83 3 8.9	M	30	...	50 15.08	...	24 35.0	M
27	...	42 36.60	...	3 7.1	M	22 <i>R. P. L. 10.</i>					
29	...	42 36.69	...	3 5.1	M	Nov. 12	...	0 51 28.43	3	1 36 16.7	M
Dec. 11	...	42 36.66	...	3 6.8	R	13	...	51 27.48	3	16.7	M
20	...	42 36.68	...	3 5.8	R	23 <i>Anon.</i>					
22	...	42 36.72	...	3 6.8	R	Nov. 10	7.0	0 52 8.16	...	181 53 18.5	M
31	...	42 36.82	...	3 5.8	M	24 <i>2 Ursæ Minoris.</i>					
17 <i>Anon.</i>						Jan. 5	...	0 52 57.38	3	4 22 15.0	R
Nov. 30	9.0	0 42 38.72	...	89 0 20.4	M	25 <i>Stone 392.</i>					
18 <i>Anon.</i>						Nov. 14	...	0 55 50.27	...	129 32 54.9	M
Dec. 6	9.0	0 43 53.51	...	88 58 5.9	R	16	...	55 50.22	...	32 57.4	M
						20	...	55 50.28	...	32 56.9	M
						21	...	55 50.22	...	32 56.9	M
						26	...	55 50.03	...	32 56.5	M

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.	No. of Wires.	Mean Polar Distance 1883.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.	No. of Wires.	Mean Polar Distance 1883.	Observer.
h. m. s.				° ' "		h. m. s.				° ' "	
26 <i>R. P. L. 14.</i>						33 <i>Stone 489.</i>					
Dec. 29	...	0 56 36.82	3	3 28 41.6	R	Dec. 11	6.7	1 10 57.89	...	182 37 39.5	R
						17	6.7	10 57.79	...	37 39.3	R
						18	6.7	10 57.65	...	37 39.4	R
						19	7.0	10 57.74	...	37 39.2	R
						20	6.7	10 57.84	...	37 39.0	R
27 <i>Stone 407.</i>						34 <i>Anon.</i>					
Nov. 15	...	0 57 32.77	5	137 1 35.8	M	Jan. 5	7.0	1 13 7.84	...	180 43 13.0	R
23	...	57 32.71	...	1 40.2	M	Nov. 10	7.0	13 7.66	...	43 14.7	M
27	...	57 32.55	...	1 36.7	M	13	7.0	13 7.70	...	43 13.0	M
30	...	57 32.82	...	1 36.9	M	14	7.0	13 7.71	6	43 14.6	M
Dec. 7	...	57 32.46	...	1 37.5	R						
28 <i>30 Ceti.</i>						35 <i>Taylor 428.</i>					
Nov. 14	...	1 1 53.21	...	100 24 42.8	M	Nov. 15	6.7	1 13 33.26	...	183 56 57.9	M
16	...	1 53.99	...	24 40.5	M	16	...	13 33.21	...	56 58.0	M
20	...	1 53.04	5	24 42.6	M	20	6.7	13 33.18	...	56 59.7	M
26	...	1 53.04	...	24 44.3	M	21	...	13 33.05	3	56 58.9	M
29	...	1 53.21	6	24 43.4	M	Dec. 22	6.7	13 33.12	...	56 57.5	R
29 <i>43 Andromedæ β</i>						36 <i>R. P. L. 18.</i>					
Jan. 1	...	1 3 10.83	...	54 59 59.5	R	Dec. 28	...	1 13 38.26	3	2 2 52.1	R
5	...	3 11.00	...	59 57.9	R						
30 <i>Taylor 391.</i>						37 <i>1 Ursæ Minoris α, Polaris—s.p.</i>					
Nov. 15	...	1 6 51.54	...	121 25 18.7	M	Apl. 3	...	1 15 49.92	3	1 18 55.7	M
16	...	6 51.87	...	25 19.5	M	4	...	15 49.81	3	18 54.8	M
23	...	6 51.42	...	25 20.9	M	5	...	15 49.63	3	18 54.5	M
26	...	6 51.84	...	25 18.7	M	6	...	15 49.95	3	18 53.7	M
27	...	6 51.46	...	25 17.8	M	7	...	15 49.98	3	18 54.3	M
31 <i>Anon.</i>						9	...	15 50.55	3	18 55.4	M
Nov. 9	9.0	1 9 4.03	5	145 51 44.7	M	16	...	15 50.03	3	18 54.1	M
						17	...	15 49.75	3	18 53.2	M
						21	...	15 49.25	3	18 51.8	M
32 <i>Anon.</i>						May 8	...	15 50.46	3	18 56.1	R
Jan. 2	8.0	1 10 7.77	...	124 38 59.1	R	5	...	15 52.99	3	18 54.3	R
3	8.0	10 7.72	...	38 59.8	R	7	...	15 52.20	3	18 54.8	R
						8	...	15 51.12	3	18 54.5	R
						9	...	15 50.53	3	18 54.5	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
38		45 Ceti θ^1				45		α Eridani, Achernar.			
Jan. 2	...	1 18 10.33	...	98 47 15.7	R	Dec. 28	...	1 33 21.53	...	147 49 54.4	R
3	...	18 10.46	...	47 15.9	R						
39		93 Piscium ρ				46		Anon.			
Dec. 18	...	1 19 57.00	...	71 26 ^{13.3} 7.9	R	Jan. 1	7.0	1 33 27.38	...	188 31 50.8	R
						2	7.0	33 27.47	...	31 50.8	R
						3	7.0	33 27.34	...	31 50.5	R
						4	7.0	33 27.37	...	31 51.1	R
40		Anon.				47		106 Piscium ν			
Dec. 5	9.7	1 20 7.18	3	122 56 18.0	R	Dec. 27	...	1 35 20.52	...	85 6 18.0	R
6	9.7	20 7.27	4	56 19.3	R						
41		Taylor 487.				48		Anon.			
Nov. 14	...	1 24 51.92	...	116 48 45.2	M	Jan. 5	8.0	1 36 20.23	...	140 14 24.3	R
16	...	24 51.92	...	48 45.8	M	Dec. 5	8.0	36 20.07	...	14 24.6	R
20	...	24 51.87	5	48 47.4	M	6	8.0	36 19.97	...	14 24.3	R
21	...	24 51.83	5	48 46.1	M	20	8.0	36 20.02	...	14 25.8	R
23	...	24 52.03	...	48 47.5	M						
42		99 Piscium η				49		110 Piscium ϕ			
Dec. 27	...	1 25 13.33	...	75 15 28.0	R	Nov. 12	...	1 39 12.86	...	81 25 55.9	M
28	...	25 13.31	...	15 27.9	R	13	...	39 12.98	...	25 55.0	M
29	...	25 13.43	...	15 27.1	R	16	...	39 12.94	...	25 54.6	M
31	...	25 13.34	...	15 28.4	M	20	...	39 12.79	...	25 55.5	M
43		Stone 596.				21	...	39 12.92	...	25 55.1	M
Jan. 5	7.0	1 25 30.74	...	128 23 30.4	R	23	...	39 12.86	...	25 56.6	M
9	...	25 30.59	6	23 30.7	M	27	...	39 12.84	...	25 53.9	M
Nov. 15	7.0	25 30.65	...	23 40.2	M	30	...	39 12.90	...	25 54.8	M
Dec. 4	7.0	25 30.43	...	23 38.9	R	Dec. 28	...	39 12.89	...	25 54.6	R
5	7.0	25 30.41	...	23 39.5	R	29	...	39 12.90	...	25 54.7	R
44		Taylor 524.				50		Taylor 578.			
Nov. 16	...	1 29 48.62	4	147 36 1.8	M	Nov. 14	...	1 40 6.98	...	96 19 7.3	M
30	...	29 48.54	...	36 1.2	M	15	...	40 6.86	4	19 8.3	M
Dec. 4	...	29 48.47	...	36 2.8	R	Dec. 4	...	40 6.71	...	19 4.9	R
5	...	29 48.52	...	36 3.5	R	8	...	40 6.74	...	19 5.4	R
6	...	29 48.28	...	35 59.5	R	17	...	40 6.76	...	19 6.2	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1888. h. m. s.	No. of Wires.	Mean Polar Distance 1888. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1888. h. m. s.	No. of Wires.	Mean Polar Distance 1888. ° ' "	Observer.
51 <i>Stone 704.</i>						56 <i>Stone 812.</i>					
Jan. 1	8.0	1 41 46.30	...	183 54 17.9	R	Nov. 14	...	1 57 20.00	...	105 52 13.6	M
2	8.0	41 46.19	...	54 17.2	R	15	...	57 20.47	...	52 13.6	M
3	7.0	41 45.95	...	54 17.9	R	16	...	57 20.44	...	52 13.8	M
4	7.0	41 46.02	...	54 15.9	R	23	...	57 20.48	...	52 13.8	M
5	7.0	41 46.15	...	54 15.8	R	57 <i>Stone 824.</i>					
52 <i>Taylor 616.</i>						Jan. 4	7.0	1 59 40.87	...	184 4 6.7	R
Nov. 14	...	1 46 22.11	5	140 47 8.7	M	5	7.0	59 40.57	...	4 6.2	R
15	...	46 22.09	5	47 8.2	M	9	...	59 40.48	...	4 4.8	M
20	...	46 22.04	...	47 10.0	M	58 <i>13 Arietis α</i>					
27	...	46 22.09	...	47 7.3	M	Jan. 1	...	2 0 34.75	...	67 5 28.2	R
30	...	46 22.03	5	47 8.0	M	2	...	0 34.79	...	5 28.0	R
53 <i>6 Arietis β</i>						3	...	0 34.72	...	5 28.3	R
Dec. 4	...	1 48 10.64	...	69 45 51.5	R	8	...	0 34.60	...	5 31.6	M
5	...	48 10.60	...	45 51.7	R	11	...	0 34.59	...	5 31.4	M
6	...	48 10.57	...	45 52.9	R	12	...	0 34.75	...	5 30.3	M
7	...	48 10.60	...	45 49.9	R	15	...	0 34.58	...	5 28.7	M
8	...	48 10.63	...	45 50.3	R	16	...	0 34.64	...	5 30.5	M
11	...	48 10.55	...	45 52.3	R	18	...	0 34.59	...	5 30.7	M
17	...	48 10.62	...	45 51.8	R	19	...	0 34.77	...	5 32.0	M
18	...	48 10.61	...	45 52.4	R	20	...	0 34.78	...	5 31.2	M
19	...	48 10.68	...	45 52.8	R	22	...	0 34.80	...	5 30.4	M
20	...	48 10.57	...	45 51.2	R	24	...	0 34.72	...	5 29.6	M
22	...	48 10.64	...	45 52.1	R	Dec. 25	...	0 34.66	...	5 29.4	R
25	...	48 10.61	...	45 51.6	R	26	...	0 34.69	...	5 28.7	R
26	...	48 10.58	...	45 51.2	R	29	...	0 34.70	...	5 30.0	R
54 <i>Taylor 626.</i>						31	...	0 34.69	...	5 29.5	M
Jan. 2	...	1 48 20.95	...	129 10 21.5	R	59 <i>Stone 834.</i>					
3	...	48 20.89	...	10 21.6	R	Nov. 20	7.0	2 1 19.34	...	142 33 5.4	M
4	...	48 20.98	...	10 19.9	R	Dec. 4	6.7	1 18.88	...	33 3.5	R
5	...	48 21.11	...	10 19.6	R	5	6.7	1 18.90	...	33 4.8	R
8	...	48 20.78	...	10 23.0	M	6	6.7	1 18.80	...	33 3.9	R
55 <i>Anon.</i>						7	6.7	1 19.06	...	33 5.0	R
Jan. 4	8.0	1 53 53.49	...	127 35 3.2	R	60 <i>Stone 850.</i>					
5	8.0	53 53.47	...	35 2.8	R	Nov. 15	7.0	2 3 48.66	...	126 22 45.6	M
9	...	53 53.43	...	35 5.5	M	16	...	3 48.62	6	22 44.5	M
12	...	53 53.53	...	35 4.6	M	Dec. 18	7.0	3 48.31	...	22 46.2	R
Nov. 13	8.0	53 53.27	...	35 2.6	M	20	7.0	3 48.29	...	22 45.0	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
61 <i>Stone 870.</i>										68 <i>Stone 935.</i>									
Nov. 14	7.0	2	5	46.73	...	128	55	5.2	M	Nov. 21	...	2	16	3.51	...	140	50	20.3	M
21	...		5	46.75	...		55	5.2	M	27	...		16	3.78	...		50	17.8	M
Dec. 4	7.0		5	46.83	...		55	5.4	L	Dec. 17	6.7		16	3.37	...		50	22.5	R
5	7.0		5	46.75	...		55	5.8	R	18	6.7		16	3.37	...		50	23.5	R
6	7.0		5	46.58	...		55	5.8	R	20	6.7		16	3.44	...		50	21.7	R
62 <i>Anon.</i>										69 <i>Anon.</i>									
Jan. 1	7.7	2	8	5.62	...	131	48	51.0	R	Jan. 5	8.0	2	18	16.50	...	150	57	53.2	R
2	7.7		8	5.48	4		48	51.5	R										
63 <i>Anon.</i>										70 <i>Stone 955.</i>									
Jan. 5	8.5	2	9	23.47	...	124	51	42.5	R	Nov. 20	7.0	2	18	48.68	...	150	17	34.1	M
12	8.5		9	23.67	...		51	43.2	M	Dec. 4	6.7		18	48.68	...		17	33.0	R
16	...		9	23.71	...		51	43.0	M	5	6.7		18	48.65	...		17	35.5	R
Nov. 13	8.5		9	23.52	...		51	42.8	M	6	6.7		18	48.63	...		17	34.0	R
16	8.5		9	23.83	4		51	44.0	M	7	6.7		18	48.69	...		17	34.0	R
64 <i>Taylor 750.</i>										71 <i>Anon.</i>									
Jan. 4	6.5	2	9	47.80	...	131	42	43.9	R	Jan. 1	7.5	2	19	52.34	...	134	51	28.1	R
										2	7.5		19	52.10	...		51	27.6	R
65 <i>67 Ceti.</i>										72 <i>73 Ceti 5^a</i>									
Dec. 28	...	2	11	8.73	...	96	57	42.9	R	Dec. 31	...	2	21	56.29	...	83	3	52.4	R
29	...		11	8.68	...		57	43.9	R										
31	...		11	8.83	...		57	44.0	M										
66 <i>Stone 911.</i>										73 <i>Anon.</i>									
Nov. 20	7.0	2	11	58.70	...	143	25	53.9	M	Jan. 17	7.0	2	22	8.53	...	181	53	37.3	M
Dec. 4	6.7		11	58.80	...		25	54.0	R	20	...		22	8.64	...		53	38.9	M
5	6.7		11	58.77	...		25	54.6	R	Nov. 27	7.0		22	8.55	...		53	35.9	M
6	6.7		11	58.78	...		25	54.6	R	Dec. 17	7.0		22	8.25	...		53	37.2	R
7	6.7		11	58.73	...		25	55.1	R										
67 <i>Anon.</i>										74 <i>Anon.</i>									
Jan. 3	7.0	2	14	28.54	...	132	33	31.6	R	Jan. 4	7.0	2	23	18.01	...	135	34	15.8	R
4	7.0		14	28.68	...		33	29.9	R										
75 <i>Stone 994.</i>										75 <i>Stone 994.</i>									
										Jan. 2	7.0	2	24	31.01	...	126	27	40.7	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
90 <i>Anon.</i>									
Jan. 5	7.5	2	46	1.11	...	132	42	36.0	R
9	...		46	1.20	5		42	37.5	M
11	...		46	1.37	5		42	37.4	M
15	...		46	1.16	...		42	38.2	M
16	...		46	1.28	...		42	37.7	M
91 <i>Stone 1170.</i>									
Nov. 27	6.7	2	46	38.45	...	131	26	45.2	M
Dec. 5	6.7		46	38.60	...		26	45.3	R
17	6.7		46	38.46	...		26	45.9	R
18	6.7		46	38.46	...		26	46.1	R
20	6.7		46	38.29	...		26	41.7	R
92 <i>Anon.</i>									
Jan. 3	7.5	2	47	2.20	...	133	18	51.6	R
4	7.5		47	2.41	...		18	49.9	R
93 <i>Stone 1192.</i>									
Dec. 7	7.0	2	49	36.26	...	135	5	3.4	R
11	7.0		49	36.30	...		5	3.0	R
25	7.0		49	36.29	5		5	2.3	R
26	7.0		49	36.40	4		5	2.5	R
28	7.0		49	36.58	...		5	2.6	R
94 <i>Stone 1208.</i>									
Jan. 15	...	2	50	58.96	...	146	21	23.1	M
18	...		50	59.06	...		21	25.4	M
19	...		50	58.88	...		21	22.0	M
20	...		50	59.08	...		21	24.4	M
95 <i>Stone 1212.</i>									
Dec. 5	7.0	2	51	42.09	...	141	44	1.0	R
6	7.0		51	42.00	...		44	2.4	R
22	7.0		51	42.28	...		44	2.6	R
31	7.0		51	42.25	...		44	3.0	M
96 <i>Stone 1223.</i>									
Dec. 29	...	2	52	28.65	5	154	28	45.5	R
97 <i>Taylor 1024.</i>									
Jan. 1	7.0	2	55	47.36	...	132	20	19.0	R
2	7.0		55	47.20	...		20	18.7	R
5	7.0		55	46.96	4		20	17.9	R
98 <i>Taylor 1027.</i>									
Nov. 27	...	2	56	34.86	...	118	32	29.1	M
30	...		56	34.79	...		32	26.6	M
Dec. 7	...		56	34.77	...		32	25.5	R
18	...		56	34.57	...		32	24.6	R
20	...		56	34.71	...		32	24.7	R
99 <i>Anon.</i>									
Jan. 18	...	2	57	42.21	6	132	17	53.9	M
19	7.5		57	42.02	...		17	54.1	M
20	7.5		57	41.95	...		17	53.7	M
22	...		57	42.43	...		17	54.9	M
100 <i>Stone 1263.</i>									
Dec. 11	6.7	2	58	55.53	...	137	26	3.0	R
17	6.7		58	55.50	6		26	4.2	R
22	6.7		58	55.84	...		26	2.6	R
25	6.7		58	55.67	...		26	2.5	R
26	6.7		58	55.66	...		26	2.1	R
101 <i>Stone 1264.</i>									
Jan. 1	7.0	2	59	13.98	6	134	30	42.3	R
3	7.0		59	13.84	...		30	41.8	R
15	7.0		59	13.67	...		30	42.7	M
16	7.0		59	13.98	4		30	42.1	M
102 <i>Taylor 1042.</i>									
Jan. 2	...	2	59	43.54	...	134	21	22.2	R
4	...		59	43.56	...		21	20.2	R
9	...		59	43.59	5		21	21.3	M
11	...		59	43.51	...		21	21.7	M
12	...		59	43.49	...		21	21.8	M

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Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
103 <i>R. P. L. 33.</i>										Jan. 11	...	3	18	35.91	3	134	32	55.9	M
Dec. 7	...	3	4	48.33	3	5	30	25.0	R	12	8.0	18	35.73	...	...	32	54.0	M	
20	...		4	49.43	3		30	24.0	R	18	8.0	18	35.57	6	...	32	56.0	M	
104 <i>57 Arietis δ</i>										110 <i>Stone 1414.</i>									
Dec. 4	...	3	4	56.31	...	70	42	59.2	R	Jan. 1	7.0	3	19	17.21	...	130	29	29.7	R
5	...		4	56.30	...		42	59.5	R	2	7.0		19	17.12	...		29	29.4	R
17	...		4	56.29	...		42	59.4	R	3	7.0		19	17.02	...		29	28.8	R
18	...		4	56.35	...		42	59.5	R	111 <i>Anon.</i>									
25	...		4	56.33	...		42	59.4	R	Jan. 12	...	3	26	30.32	...	135	8	1.7	M
26	...		4	56.31	...		42	59.2	R	15	7.7		26	30.25	...		8	3.9	M
31	...		4	56.32	...		42	58.8	M	16	7.7		26	30.19	...		8	1.1	M
105 <i>Stone 1342.</i>										112 <i>18 Eridani ε</i>									
Jan. 1	7.0	3	9	50.85	...	180	41	31.9	R	Jan. 4	...	3	27	25.09	...	99	51	19.1	R
2	7.0		9	50.72	...		41	31.5	R	5	...		27	25.10	...		51	19.3	R
106 <i>Anon.</i>										8	...		27	25.14	...		51	20.9	M
Jan. 3	8.0	3	12	16.99	...	126	8	38.7	R	9	...		27	25.12	...		51	19.4	M
4	8.0		12	17.30	...		8	37.0	R	17	...		27	25.24	...		51	20.6	M
12	8.0		12	17.40	...		8	37.7	M	18	...		27	25.20	...		51	20.9	M
107 <i>33 Persei α</i>										113 <i>R. P. L. 34.</i>									
Jan. 19	...	3	15	58.29	...	40	33	23.8	M	Jan. 2	...	3	28	19.86	3	3	43	28.7	R
20	...		15	58.22	...		33	24.1	M	3	...		28	20.11	3		43	27.5	R
22	...		15	58.35	...		33	22.7	M	Dec. 28	...		28	19.15	3		43	28.9	R
108 <i>1 Tauri α, Var. 5.</i>										29	...		28	18.63	3		43	30.7	R
Jan. 5	...	3	18	31.09	...	81	22	59.6	R	114 <i>Stone 1522.</i>									
24	...		18	31.07	...		22	59.9	M	Jan. 1	7.0	3	34	39.77	...	136	37	28.0	R
31	...		18	30.92	...		23	0.8	M	2	7.0		34	39.65	...		37	22.1	R
Feb. 1	...		18	31.07	...		23	0.0	R	115 <i>Stone 1526.</i>									
Dec. 28	...		18	31.13	...		23	1.9	R	Jan. 3	8.0	3	35	9.17	...	126	19	10.3	R
29	...		18	31.07	...		23	2.1	R	4	8.0		35	9.23	...		19	8.7	R
109 <i>Anon.</i>										5	9.0		35	9.38	...		19	8.3	R
Jan. 4	8.0	3	18	35.56	...	134	32	53.5	R	8	...		35	9.42	5		19	12.7	M
8	...		18	35.50	...		32	57.3	M	9	...		35	9.08	5		19	11.7	M

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Number and Date.	Magnitude.	Mean Right Ascension 1883.	No. of Wires.	Mean Polar Distance 1883.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.	No. of Wires.	Mean Polar Distance 1883.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
127 <i>87 Tauri α, Aldebaran.</i>						132 <i>R. P. L. 37.</i>					
Jan. 31	...	4 39 12.48	...	73 43 40.4	M	Jan. 4	...	4 50 27.77	3	4 11 50.6	R
Feb. 1	...	29 12.47	...	43 35.6	R	8	...	50 27.55	3	11 49.6	M
2	...	29 12.48	...	43 37.3	R	9	...	50 27.83	3	11 49.1	M
3	...	29 12.49	...	43 37.9	R	13	...	50 27.80	3	11 47.9	M
5	...	29 12.48	...	43 37.6	R	15	...	50 27.83	3	11 49.5	M
6	...	29 12.55	...	43 36.4	M	16	...	50 28.03	3	11 50.6	M
7	...	29 12.31	...	43 38.2	M	17	...	50 27.79	3	11 52.0	M
8	...	29 12.45	...	43 36.4	R	18	...	50 27.85	3	11 48.5	M
128 <i>α Doradus.</i>						19	...	50 27.39	3	11 47.5	M
Feb. 9	...	4 31 28.17	...	145 17 13.6	R	20	...	50 27.75	3	11 50.6	M
10	...	31 28.27	...	17 14.1	R	<i>R. P. L. 37—s. p.</i>					
12	...	31 28.24	...	17 12.8	R	May 7	...	4 50 27.23	3	4 11 50.0	R
13	...	31 28.06	...	17 12.0	R	12	...	50 27.69	3	11 47.5	R
14	...	31 28.32	...	17 18.4	R	133 <i>7 Aurigæ ε, Var. 1.</i>					
129 <i>Stone 1991.</i>						Feb. 9	...	4 53 34.14	...	46 21 4.6	R
Jan. 2	...	4 32 31.04	...	135 22 29.8	R	10	...	53 34.34	...	21 4.0	R
3	...	32 30.97	...	22 29.5	R	12	...	53 34.55	...	21 3.4	R
4	...	32 31.07	...	22 30.2	R	13	...	53 34.43	...	21 4.0	R
8	...	32 30.99	...	22 30.8	M	14	...	53 34.44	...	21 2.6	R
130 <i>Anon.</i>						134 <i>Stone 2191.</i>					
Jan. 11	7.0	4 45 26.36	...	181 47 23.9	M	Jan. 11	7.5	4 56 19.66	6	131 13 20.1	M
31	7.0	45 26.50	...	47 24.0	M	25	...	56 19.69	5	13 17.3	M
Feb. 2	7.0	45 26.50	...	47 22.7	R	26	...	56 19.78	...	13 19.7	M
3	7.0	45 26.53	...	47 21.9	R	27	7.0	56 19.77	...	13 20.9	M
5	7.0	45 26.56	...	47 22.2	R	29	...	56 19.75	...	13 20.8	M
131 <i>3 Aurigæ ε</i>						135 <i>R. P. L. 39.</i>					
Jan. 22	...	4 49 22.41	...	57 1 15.5	M	Jan. 15	...	5 4 14.46	3	4 26 1.0	M
24	...	49 22.41	...	1 16.6	M	16	...	4 18.60	3	26 1.4	M
25	...	49 22.42	...	1 15.3	M	17	...	4 14.03	3	26 0.5	M
26	...	49 22.41	...	1 15.8	M	18	...	4 14.13	3	26 0.1	M
27	...	49 22.46	...	1 17.6	M	20	...	4 14.11	3	26 2.5	M
29	...	49 22.44	...	1 16.5	M	22	...	4 14.27	3	26 0.3	M
30	...	49 22.52	...	1 16.7	M	25	...	4 18.76	3	26 5.2	M
Feb. 7	...	49 22.37	...	1 14.3	M	27	...	4 18.92	3	26 1.9	M
8	...	49 22.43	...	1 14.5	R	30	...	4 18.93	3	26 0.7	M
						31	...	4 13.90	3	26 4.0	M

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Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
<i>R. P. L. 39.—s.p.</i>						<i>R. P. L. 40.—s.p.</i>					
May 18	...	5 4 13.83	3	4 26 3.8	R	May 18	...	5 24 37.36	3	4 51 57.5	R
19	...	4 13.82	3	26 3.9	R	19	...	24 37.68	3	51 58.0	R
23	...	4 13.40	3	26 6.1	R	23	...	24 37.44	3	51 59.3	R
28	...	4 13.95	3	26 5.1	R	<i>140 34 Orionis δ, Var. 1.</i>					
June 15	...	4 14.19	3	26 8.5	M	Jan. 20	...	5 26 1.88	...	90 23 12.9	M
Aug. 8	...	4 14.45	3	26 1.6	R	<i>141 11 Leporis α</i>					
9	...	4 14.23	3	26 5.1	R	Jan. 25	...	5 27 31.25	...	107 54 25.2	M
<i>136 13 Aurigæ α, Capella.</i>						26	...	27 31.21	...	54 26.1	M
Jan. 12	...	5 8 2.75	...	44 7 19.9	M	<i>142 R. P. L. 41.—s.p.</i>					
19	...	8 2.08	...	7 19.5	M	June 1	...	5 29 13.81	3	4 44 57.1	R
24	...	8 2.60	...	7 19.6	M	7	...	29 13.96	3	44 59.2	R
26	...	8 2.75	...	7 18.2	M	Aug. 8	...	29 14.25	3	44 56.8	R
29	...	8 2.57	...	7 20.2	M	11	...	29 14.85	3	44 59.3	R
Feb. 14	...	8 2.63	...	7 19.3	R	13	...	29 14.19	3	45 0.4	R
15	...	8 2.64	...	7 19.8	R	14	...	29 13.01	3	45 0.6	R
16	...	8 2.52	...	7 19.2	R	16	...	29 13.59	3	45 1.0	R
17	...	8 2.65	...	7 20.4	R	18	...	29 12.54	3	44 59.5	R
<i>137 19 Orionis β, Rigel.</i>						<i>143 R. P. L. 42.</i>					
Feb. 2	...	5 8 54.83	...	98 20 16.0	R	Jan. 15	...	5 36 38.91	3	2 40 52.2	M
3	...	8 54.85	...	20 14.9	R	16	...	36 37.79	3	40 51.1	M
5	...	8 54.85	...	20 15.9	R	20	...	36 37.11	3	40 55.0	M
8	...	8 54.88	...	20 16.5	R	24	...	36 37.01	3	40 54.3	M
9	...	8 54.80	...	20 17.8	R	25	...	36 36.69	3	40 56.7	M
10	...	8 54.83	...	20 15.3	R	29	...	36 37.54	3	40 52.1	M
12	...	8 54.89	...	20 16.6	R	Feb. 1	...	36 39.27	3	40 50.0	R
13	...	8 54.85	...	20 16.8	R	2	...	36 39.21	3	40 51.0	R
<i>138 112 Tauri β</i>						7	...	36 38.35	3	40 52.7	M
Jan. 12	...	5 18 53.74	...	61 29 33.5	M	<i>144 53 Orionis κ</i>					
15	...	18 53.76	...	29 35.5	M	Jan. 19	...	5 42 12.56	...	90 42 45.4	M
16	...	18 53.82	...	29 35.7	M	27	...	42 12.44	...	42 47.0	M
17	...	18 53.82	...	29 34.8	M	29	...	42 12.39	...	42 45.3	M
<i>139 R. P. L. 40.</i>						30	...	42 12.39	...	42 47.3	M
Jan. 15	...	5 24 38.64	3	4 51 56.5	M						
16	...	24 38.05	3	51 59.6	M						
18	...	24 37.47	3	51 56.7	M						

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
145 33 Aurigæ δ						149 51 Cephei (Hev.).					
Feb. 8	...	5 49 53.50	...	35 43 34.6	R	Feb. 8	...	6 45 16.50	3	2 46 27.1	R
9	...	49 53.47	...	43 34.3	R	9	...	45 16.82	3	46 26.8	R
10	...	49 53.51	...	43 34.2	R	10	...	45 17.40	3	46 26.2	R
12	...	49 53.71	...	43 32.6	R	12	...	45 16.94	3	46 26.1	R
18	...	49 53.55	...	43 32.0	R	13	...	45 17.73	3	46 27.5	R
146 R. P. L. 43.						14	...	45 17.27	3	46 26.1	R
Jan. 18	...	6 0 28.63	3	3 14 15.6	M	15	...	45 17.54	3	46 24.6	R
19	...	0 28.64	3	14 15.5	M	19	...	45 17.09	3	46 25.3	R
20	...	0 28.48	3	14 17.0	M	20	...	45 17.58	3	46 26.4	R
24	...	0 28.53	3	14 15.5	M	24	...	45 18.33	3	46 25.9	R
25	...	0 28.05	3	14 18.9	M	150 Anon.—2nd Star.					
R. P. L. 43.—s.p.						Feb. 7	9.5	6 48 35.48	...	70 33 39.0	M
Aug. 10	...	6 0 28.06	3	3 14 15.2	R	9	9.5	48 35.55	...	33 38.0	R
16	...	0 27.29	3	14 18.5	R	12	9.5	48 35.80	...	33 37.9	R
18	...	0 27.53	3	14 18.6	R	13	9.5	48 35.54	...	33 37.0	R
25	...	0 28.63	3	14 13.4	R	151 W. B. N. VI. 1448.					
147 7 Geminorum η						Feb. 5	9.0	6 49 45.87	...	62 3 38.8	R
Feb. 2	...	6 7 48.90	...	67 27 36.4	R	6	9.0	49 45.85	...	3 36.7	M
3	...	7 48.88	...	27 36.9	R	8	9.0	49 45.65	...	3 41.8	R
5	...	7 48.91	...	27 36.8	R	10	9.0	49 45.72	...	3 40.2	R
6	...	7 48.85	...	27 35.4	M	14	9.0	49 45.95	...	3 39.4	R
7	...	7 48.76	...	27 37.5	M	152 22 Canis Majoris.					
9	...	7 48.93	...	27 37.7	R	Feb. 9	...	6 57 3.52	...	117 46 6.6	R
10	...	7 48.88	...	27 36.6	R	10	...	57 3.57	...	46 5.7	R
12	...	7 48.86	...	27 38.1	R	12	...	57 3.58	...	46 4.3	R
13	...	7 48.89	...	27 37.8	R	13	...	57 3.55	...	46 4.7	R
14	...	7 48.85	...	27 38.0	R	14	...	57 3.59	...	46 5.4	R
148 31 Geminorum ξ						153 3 Canis Minoris β					
Feb. 6	...	6 38 43.28	...	76 58 45.4	M	Feb. 9	...	7 20 48.35	...	81 28 33.3	R
7	...	38 43.42	...	58 48.8	M	10	...	20 48.42	...	28 31.6	R
15	...	38 43.37	...	58 45.0	R	12	...	20 48.93	...	28 30.7	R
16	...	38 43.37	...	58 46.3	R	13	...	20 48.35	...	28 30.9	R
17	...	38 43.39	...	58 45.2	R	14	...	20 48.35	...	28 31.2	R
19	...	38 43.34	...	58 45.0	R	15	...	20 48.32	...	28 32.8	R
20	...	38 43.37	...	58 47.2	R	16	...	20 48.29	...	28 31.0	R
31	...	38 43.30	...	58 46.9	R	17	...	20 48.36	...	28 33.7	R
22	...	38 43.31	...	58 46.5	R	19	...	20 48.34	...	28 31.5	R
23	...	38 43.32	...	58 44.8	R	20	...	20 48.36	...	28 32.7	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
154 <i>77 Geminorum κ</i>										159 <i>R. P. L. 53.—s.p.</i>									
Feb. 21	..	7	37	22.78	...	65	19	22.2	R	July 28	...	8	20	38.26	3	4	32	8.5	R
22	...		37	22.81	...		19	21.5	R	Aug. 11	...		20	38.49	3		32	7.7	R
23	...		37	22.95	...		19	21.6	R	13	...		20	38.26	8		32	9.4	R
26	...		37	22.93	...		19	21.0	R	Oct. 24	...		20	38.04	3		32	8.7	R
27	...		37	22.99	...		19	20.3	R	25	...		20	38.06	3		32	9.8	R
155 <i>W. B. E. VII. 1127.</i>										160 <i>Lalande 16797.</i>									
Feb. 6	9.0	7	38	32.46	...	81	9	24.5	M	Feb. 7	8.0	8	27	6.59	...	76	8	5.7	M
9	9.0		38	32.63	...		9	26.0	R	8	8.0		27	6.60	...		8	3.8	R
12	9.0		38	32.58	...		9	23.8	R	9	8.0		27	6.52	...		8	2.9	R
16	9.0		38	32.64	...		9	22.6	R	10	8.0		27	6.63	...		3	2.8	R
17	9.0		38	32.70	...		9	26.3	R	12	8.0		27	6.73	...		3	2.4	R
156 <i>ξ Argūs.</i>										161 <i>R. P. L. 55—s.p.</i>									
Feb. 14	...	7	44	22.48	...	114	33	57.6	R	Sep. 14	...	8	31	32.19	3	5	40	55.5	M
15	...		44	22.45	...		33	57.6	R	Oct. 18	...		31	31.69	3		40	55.3	R
16	...		44	22.49	...		33	57.9	R	22	...		31	31.97	3		40	56.8	R
17	...		44	22.49	...		33	59.6	R	162 <i>43 Cancri γ</i>									
19	...		44	22.55	...		33	59.3	R	Feb. 17	...	8	36	30.78	...	68	6	42.7	R
20	...		44	22.47	...		33	59.8	R	19	...		36	30.73	...		6	42.2	R
21	...		44	22.51	...		33	59.2	R	20	...		36	30.73	...		6	42.9	R
22	...		44	22.49	...		33	59.2	R	21	...		36	30.77	...		6	42.2	R
23	...		44	22.47	...		34	1.3	R	22	...		36	30.79	...		6	41.7	R
24	...		44	22.51	...		33	59.1	R	23	...		36	30.79	...		6	43.3	R
157 <i>R. P. L. 48—s.p.</i>										24	...		36	30.74	...		6	41.9	R
Aug. 4	...	7	46	45.38	3	8	58	4.3	R	26	...		36	30.77	...		6	43.5	R
13	...		46	45.11	3		58	3.5	R	27	...		36	30.77	...		6	42.0	R
14	...		46	44.28	3		58	3.2	R	28	...		36	30.85	...		6	41.0	R
Sep. 4	...		46	44.31	3		58	3.5	M	163 <i>R. P. L. 60—s.p.</i>									
14	...		46	45.19	3		58	4.2	M	Sep. 28	...	8	50	44.02	3	5	21	10.9	M
158 <i>Lalande 16364.</i>										164 <i>W. B. E. IX. 78.</i>									
Feb. 6	8.0	8	15	22.51	...	76	0	16.9	M	Feb. 13	9.0	9	6	31.24	...	77	16	15.2	R
7	8.0		15	22.48	...		0	18.8	M	14	9.0		6	31.23	...		16	15.8	R
8	8.0		15	22.58	..		0	18.7	R	15	9.0		6	31.16	...		16	16.3	R
9	8.0		15	22.46	...		0	19.4	R	16	9.0		6	31.32	...		16	15.4	R
10	8.0		15	22.36	...		0	17.2	R	17	9.0		6	31.37	...		16	16.2	R

Observations in 1883.									
Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"	
165 <i>Argus.</i>									
Feb. 23	...	9	18	57.46	...	148	47	4.1	R
26	...		13	57.37	...		47	6.3	R
27	...		13	57.34	...		47	6.5	R
28	...		13	57.32	...		47	4.7	R
Mar. 1	...		13	57.42	...		47	5.3	R
Apl. 3	...		13	57.62	...		47	6.9	M
4	...		13	57.54	...		47	8.9	M
5	...		13	57.43	...		47	7.7	M
6	...		13	57.64	...		47	8.1	M
7	...		13	57.48	...		47	7.2	M
166 <i>Lalande 18405.</i>									
Feb. 18	8.0	9	14	35.45	...	77	32	42.6	R
15	8.0		14	35.33	...		32	43.5	R
17	8.0		14	35.56	...		32	44.5	R
19	8.0		14	35.47	...		32	44.9	R
21	8.0		14	35.49	...		32	44.3	R
167 <i>W. B. E. IX. 270.</i>									
Feb. 14	9.0	9	14	55.62	...	77	15	40.4	R
16	9.0		14	55.44	...		15	40.3	R
20	9.0		14	55.34	...		15	40.5	R
22	9.0		14	55.29	...		15	40.8	R
24	9.0		14	55.41	...		15	39.4	R
168 <i>κ Argus.</i>									
Feb. 19	...	9	18	29.18	...	144	30	40.4	R
20	...		18	29.18	...		30	41.6	R
21	...		18	29.18	...		30	41.5	R
22	...		18	29.19	...		30	41.4	R
23	...		18	29.23	...		30	39.8	R
169 <i>R. P. L. 62.—s.p.</i>									
Sep. 14	...	9	21	24.92	3	3	21	31.7	M
15	...		21	23.97	3		21	32.7	M
170 <i>Lalande 19559.</i>									
Feb. 19	7.0	9	53	48.59	...	109	47	50.6	R
20	7.0		53	48.61	...		47	50.7	R
21	7.0		53	48.60	...		47	51.3	R
22	7.0		53	48.58	...		47	51.1	R
23	7.0		53	48.61	...		47	51.0	R
171 <i>Lalande 19846.</i>									
Feb. 19	8.0	10	5	40.75	...	107	3	28.3	R
20	8.0		5	40.87	...		3	29.4	R
21	8.0		5	40.86	...		3	30.3	R
22	8.0		5	40.84	...		3	29.9	R
23	8.0		5	40.92	...		3	32.6	R
172 <i>33 Ursæ Majoris λ</i>									
Feb. 24	...	10	10	1.86	...	46	30	6.0	R
173 <i>W. B. E. X. 228.</i>									
Feb. 19	9.0	10	15	3.04	...	104	0	29.3	R
21	9.0		15	2.99	...		0	30.1	R
23	9.0		15	2.97	...		0	29.8	R
26	9.0		15	3.12	...		0	29.2	R
28	9.0		15	3.02	...		0	28.4	R
174 <i>Lalande 20089.</i>									
Feb. 20	7.5	10	15	10.63	...	104	54	4.6	R
22	7.5		15	10.54	...		54	4.6	R
24	7.5		15	10.54	...		54	4.0	R
27	7.5		15	10.45	...		54	3.2	R
Mar. 1	7.5		15	10.52	...		54	4.8	R
175 <i>Anon.</i>									
Apl. 10	9.7	10	16	1.97	...	84	34	4.8	M
11	9.7		16	1.94	...		34	3.1	M
12	9.7		16	1.95	...		34	1.6	M
13	9.7		16	2.03	...		34	1.4	M
14	9.7		16	2.14	...		34	1.9	M

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176 <i>Lalande 20205.</i>						181 <i>84 Leonis τ</i>					
Apl. 6	8.0	10 19 20.37	...	84. 50 7.3	M	Feb. 26	...	11 21 55.23	...	86 29 57.7	R
7	...	19 20.29	...	50 9.2	M	27	...	21 55.26	...	20 57.7	R
9	8.0	19 20.48	...	50 6.8	M	28	...	21 55.27	...	20 57.3	R
16	8.0	19 20.28	...	50 8.7	M	Mar. 1	...	21 55.18	...	20 57.7	R
18	...	19 20.48	...	50 7.1	M	Apl. 3	...	21 55.16	...	20 58.3	M
177 <i>Lalande 20521.</i>						4	...	21 55.20	...	20 58.7	M
Feb. 19	6.7	10 30 28.02	...	99 58 33.4	R	5	...	21 55.21	...	20 58.0	M
21	6.7	30 28.07	...	58 34.1	R	6	...	21 55.17	...	30 0.0	M
23	6.7	30 29.05	...	58 34.2	R	7	...	21 55.18	...	29 59.8	M
26	6.7	30 28.07	...	58 34.1	R	14	...	21 55.26	...	29 59.8	M
28	6.7	30 28.08	...	58 33.8	R	182 <i>Anon.</i>					
178 <i>Yarnall 4420.</i>						Apl. 9	9.5	11 22 33.40	...	92 38 7.3	M
Feb. 20	7.0	10 30 42.68	...	101 36 8.5	R	10	9.5	22 33.32	...	38 7.9	M
22	7.0	30 42.55	...	36 9.3	R	11	9.5	22 33.44	...	36 6.4	M
24	7.0	30 42.55	...	36 8.4	R	12	9.5	22 33.37	...	38 7.2	M
27	7.0	30 42.84	...	36 8.4	R	13	9.5	22 33.36	...	38 8.2	M
Mar. 1	7.0	30 42.90	...	36 8.4	R	183 <i>R. P. L. 82.</i>					
179 <i>58 Leonis δ.</i>						Feb. 28	...	11 26 39.66	3	3 44 15.9	R
Feb. 21	...	10 54 31.03	...	85 45 17.1	R	Apl. 3	...	26 39.09	3	44 13.1	M
22	...	54 31.03	...	45 17.1	R	4	...	26 39.01	3	44 15.5	M
24	...	54 31.01	...	45 16.4	R	5	...	26 39.21	3	44 14.3	M
26	...	54 31.05	...	45 15.9	R	6	...	26 39.15	3	44 15.8	M
27	...	54 31.06	...	45 15.2	R	7	...	26 38.88	3	44 16.3	M
28	...	54 31.00	...	45 15.0	R	9	...	26 39.88	3	44 15.7	M
Mar. 1	...	54 31.02	...	45 15.5	R	16	...	26 38.84	3	44 16.7	M
Apl. 3	...	54 31.00	...	45 16.5	M	17	...	26 38.96	3	44 15.3	M
4	...	54 31.12	...	45 17.3	M	21	...	26 38.08	3	44 15.6	N
5	...	54 31.11	...	45 16.5	M	180 <i>70 Leonis θ</i>					
180 <i>70 Leonis θ</i>						<i>R. P. L. 82.—s.p.</i>					
Feb. 26	...	11 8 5.91	...	73 55 52.2	R	Oct. 19	...	11 26 38.71	3	3 44 18.0	R
27	...	8 5.97	...	55 52.6	R	23	...	26 38.71	3	44 16.7	R
28	...	8 6.02	...	55 52.0	R	25	...	26 38.39	3	44 15.6	R
Mar. 1	...	8 5.97	...	55 50.8	R	Nov. 9	...	26 39.39	3	44 15.7	M
Apl. 3	...	8 5.99	...	55 52.4	M	12	...	26 38.20	3	44 15.1	M

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184 <i>R. P. L. 87.—s.p.</i>						190 <i>43 Virginis δ</i>					
Nov. 13	...	11 53 32.11	3	2 21 15.2	M	Apl. 9	...	12 49 42.57	...	85 57 56.7	M
14	...	53 32.22	2	21 16.6	M	10	...	49 42.08	...	57 57.6	M
Dec. 6	...	53 29.48	3	21 14.1	R	11	...	49 42.66	...	57 58.4	M
7	...	53 29.93	3	21 14.6	R	12	...	49 42.71	...	57 57.6	M
185 <i>8 Virginis π</i>						13	...	49 42.66	...	57 57.5	M
Apl. 3	...	11 54 52.47	...	82 43 58.5	M	14	...	49 42.69	...	57 56.9	M
4	...	54 52.41	...	44 0.7	M	16	...	49 42.62	...	57 57.3	M
5	...	54 52.49	...	43 59.8	M	17	...	49 42.60	...	57 57.8	M
6	...	54 52.53	...	44 1.8	M	18	...	49 42.04	...	57 58.7	M
7	...	54 52.59	...	43 59.9	M	19	...	49 42.64	...	57 57.7	M
9	...	54 52.69	...	43 59.6	M	20	...	49 42.68	...	57 56.4	M
10	...	54 52.72	...	43 59.6	M	21	...	49 42.66	...	57 57.6	M
11	...	54 52.68	...	43 59.5	M	23	...	49 42.65	...	57 56.0	N
12	...	54 52.65	...	43 59.8	M	24	...	49 42.58	...	57 55.2	N
13	...	54 52.66	...	44 1.3	M	25	...	49 42.67	...	57 56.9	M
186 <i>R. P. L. 97.—s.p.</i>						26	...	49 42.58	...	57 55.1	M
Nov. 12	...	12 37 35.28	3	5 42 53.3	M	28	...	49 42.55	...	57 58.3	M
Dec. 6	...	37 33.56	3	42 51.8	R	30	...	49 42.64	...	57 57.6	M
7	...	37 34.10	3	42 51.0	R	May 1	...	49 42.64	...	57 57.0	R
187 <i>R. P. L. 98.—s.p.</i>						2	...	49 42.63	...	57 58.1	R
Nov. 9	...	12 48 8.00	3	5 56 45.3	M	191 <i>47 Virginis ε</i>					
Dec. 29	...	48 7.96	3	56 44.8	R	Apl. 9	...	12 56 21.11	...	78 24 42.1	M
188 <i>R. P. L. 99.—s.p.</i>						10	...	56 21.05	...	24 45.2	M
Dec. 20	...	12 48 16.16	3	5 57 4.4	R	11	...	56 21.14	...	24 43.8	M
22	...	48 16.23	3	57 4.8	R	12	...	56 21.12	...	24 42.4	M
189 <i>77 Ursæ Majoris ε</i>						13	...	56 21.15	...	24 43.8	M
Apl. 3	...	12 48 52.48	...	33 24 17.1	M	14	...	56 21.05	...	24 42.8	M
4	...	48 52.51	...	24 17.8	M	16	...	56 21.13	...	24 43.3	M
5	...	48 52.52	...	24 18.5	M	17	...	56 21.07	...	24 43.4	M
6	...	48 52.86	...	24 17.0	M	18	...	56 21.11	...	24 44.0	M
7	...	48 52.57	...	24 18.7	M	19	...	56 21.01	...	24 43.9	M
						21	...	56 21.13	...	24 45.0	M
						23	...	56 21.15	...	24 41.6	M
						24	...	56 21.16	...	24 41.9	M
						25	...	56 21.08	...	24 43.6	M
						26	...	56 21.13	...	24 44.2	M
						28	...	56 21.20	...	24 43.8	M
						30	...	56 21.22	...	24 43.2	M
						May 1	...	56 21.17	...	24 40.6	R
						2	...	56 21.16	...	24 41.3	R
						3	...	56 21.25	...	24 40.9	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
May 4	...	12 56 21.20	...	78 24 41.0	R	196 <i>4 Bootis τ</i>					
5	...	56 21.21	...	24 41.2	R	Apl. 9	...	18 41 42.20	...	71 57 31.6	M
7	...	56 21.28	...	24 41.5	R	11	...	41 42.08	...	57 32.2	M
8	...	56 21.26	...	24 41.7	R	12	...	41 42.08	...	57 32.2	M
9	...	56 21.28	...	24 42.1	R	13	...	41 42.11	...	57 31.5	M
10	...	56 21.22	...	24 38.7	R	14	...	41 42.08	...	57 30.3	M
11	...	56 21.22	...	24 38.6	R	16	...	41 42.04	...	57 32.2	M
12	...	56 21.23	...	24 39.5	R	17	...	41 42.12	...	57 31.0	M
14	...	56 21.19	...	24 40.7	R	18	...	41 42.08	...	57 30.6	M
15	...	56 21.08	...	24 40.0	R	19	...	41 42.14	...	57 30.5	M
192 <i>R. P. L. 100—s.p.</i>						20	...	41 42.12	...	57 30.3	M
Jan. 2	...	13 0 26.39	3	3 29 7.4	R	197 <i>85 Ursæ Majoris η</i>					
Nov. 13	...	0 26.89	3	29 5.8	M	May 3	...	18 42 55.78	...	40 6 7.1	R
Dec. 20	...	0 26.43	3	29 9.2	R	4	...	42 55.79	...	6 7.4	R
28	...	0 27.35	3	29 7.0	R	5	...	42 55.68	...	6 5.9	R
193 <i>51 Virginis θ</i>						7	...	42 55.62	...	6 7.0	R
May 3	...	18 3 53.52	...	94 54 50.3	R	8	...	42 55.70	...	6 6.8	R
4	...	3 53.50	...	54 48.1	R	9	...	42 55.71	...	6 6.6	R
5	...	3 53.57	...	54 47.9	R	10	...	42 55.71	...	6 4.6	R
7	...	3 53.55	...	54 48.9	R	11	...	42 55.61	...	6 6.2	R
8	...	3 53.52	...	54 49.0	R	12	...	42 55.65	...	6 6.2	R
9	...	3 53.47	...	54 49.5	R	14	...	42 55.60	...	6 6.9	R
10	...	3 53.51	...	54 48.2	R	198 <i>8 Bootis η</i>					
11	...	3 53.63	...	54 48.7	R	Apl. 20	...	13 49 6.70	...	71 0 57.2	M
12	...	3 53.55	...	54 48.8	R	21	...	49 6.66	...	0 57.1	M
14	...	3 53.55	...	54 48.8	R	23	...	49 6.69	...	0 55.4	M
15	...	3 53.40	...	54 48.9	R	24	...	49 6.76	...	0 56.3	M
194 <i>R. P. L. 101.—s.p.</i>						25	...	49 6.68	...	0 57.1	M
Nov. 12	...	13 7 6.31	3	1 43 20.6	M	26	...	49 6.70	...	0 58.7	M
195 <i>79 Virginis ζ</i>						28	...	49 6.81	...	0 58.8	M
Apl. 16	...	18 28 44.04	...	89 59 53.4	M	30	...	49 6.69	...	0 56.2	M
17	...	28 44.06	...	59 51.3	M	May 1	...	49 6.82	...	0 55.9	R
18	...	28 44.04	...	59 53.1	M	2	...	49 6.83	...	0 56.1	R
19	...	28 44.03	...	59 53.0	M	199 <i>Anon.</i>					
20	...	28 44.04	...	59 51.8	M	Apl. 11	8.5	13 50 24.49	...	142 5 16.9	M
21	...	28 44.11	...	59 53.4	M	12	8.5	50 24.52	...	5 19.9	M
23	...	28 44.08	...	59 50.8	M	13	8.5	50 24.54	...	5 20.4	M
24	...	28 44.07	...	59 51.1	M	14	8.5	50 24.56	...	5 20.3	M
25	...	28 44.15	...	59 52.4	M	16	8.5	50 24.46	...	5 20.6	M
26	...	28 44.14	...	59 52.0	M						

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
200 <i>R. P. L. 108.—s.p.</i>						208 <i>Stone 7947.</i>					
Dec. 28	...	14 1 29.77	3	3 40 55.6	R	Apl. 20	...	14 29 31.34	...	157 41 41.2	M
						21	7.0	29 31.29	...	41 42.0	M
201 <i>Taylor 6609.</i>						209 <i>Taylor 6811.</i>					
Apl. 25	...	14 5 40.88	...	181 5 32.9	M	Apl. 25	7.0	14 30 6.62	...	132 36 6.2	M
26	...	5 40.72	...	5 34.2	M	26	7.0	30 6.65	...	36 6.9	M
30	...	5 40.71	...	5 32.9	M	30	...	30 6.60	...	36 5.1	M
May 1	...	5 40.98	...	5 31.5	R	May 1	7.0	30 6.56	...	36 5.0	R
2	...	5 40.98	...	5 32.0	R	2	7.0	30 6.55	...	36 4.0	R
202 <i>Stone 7816.—2nd.</i>						210 <i>Stone 7969.</i>					
Apl. 26	...	14 12 49.00	...	132 31 12.4	M	May 4	7.5	14 32 17.08	...	129 3 27.4	R
30	...	12 48.77	...	31 13.7	M	10	7.5	32 17.11	...	3 26.8	R
May 1	...	12 48.99	...	31 12.9	R	211 <i>Anon.</i>					
2	...	12 49.00	...	31 18.5	R	May 5	7.0	14 35 28.51	...	151 25 42.9	R
3	...	12 49.02	...	31 18.3	R	212 <i>Anon.</i>					
203 <i>Anon.</i>						Apl. 19	...	14 38 46.84	...	128 6 32.4	M
Apl. 23	...	14 13 8.18	...	151 0 41.2	M	213 <i>Taylor 6891.</i>					
204 <i>Stone 7826.</i>						Apl. 25	7.0	14 39 56.14	...	133 3 53.0	M
Apl. 20	...	14 14 9.26	...	156 6 31.2	M	26	7.0	39 56.22	...	3 49.7	M
21	7.0	14 9.45	...	6 32.4	M	30	...	39 55.92	...	3 50.6	M
205 <i>Anon.</i>						May 1	7.0	39 56.07	...	3 49.6	R
May 2	7.0	14 21 19.48	...	150 19 33.0	R	2	7.0	39 56.03	...	3 51.0	R
4	7.0	21 19.59	...	19 32.5	R	214 <i>Anon.</i>					
7	7.0	21 19.75	...	19 32.0	R	May 8	7.5	14 42 47.95	...	126 54 24.0	R
206 <i>Anon.</i>						9	7.5	42 47.95	...	54 24.2	R
Apl. 21	8.7	14 21 30.59	...	150 17 36.0	M	10	7.5	42 48.05	...	54 24.5	R
24	8.7	21 30.46	...	17 38.6	M	11	7.5	42 48.05	...	54 24.2	R
May 3	9.0	21 30.34	...	17 32.5	R	12	7.5	42 48.20	...	54 24.9	R
5	9.0	21 30.44	...	17 31.3	R	215 <i>Taylor 6925.</i>					
9	9.0	21 30.40	...	17 32.8	R	Apl. 28	...	14 45 30.81	...	127 19 12.8	M
207 <i>Stone 7897.</i>						30	...	45 30.66	...	19 14.3	M
Apl. 19	...	14 23 7.98	...	129 57 14.7	M	May 1	...	45 30.67	...	19 13.8	R
20	...	23 7.98	...	57 14.3	M	2	...	45 30.66	...	19 14.8	R
						3	...	45 30.80	...	19 14.4	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
216 <i>Anon.</i>										222 <i>Taylor 7001.</i>									
Apl. 19	...	14	47	5.45	...	181	33	52.9	M	Apl. 25	...	14	56	15.36	...	125	28	53.9	M
21	7.5	47	5.53	...	...	33	53.3	M	26	...	56	15.55	...	...	...	28	54.9	M	
24	7.5	47	5.47	...	...	33	52.6	M	28	...	56	15.00	...	...	...	28	53.8	M	
										30	...	56	15.44	...	...	...	28	54.0	M
										May 1	...	56	15.00	...	...	...	28	55.1	R
217 <i>Anon.</i>										223 <i>Taylor 7027.</i>									
Apl. 20	...	14	48	10.24	...	126	41	5.0	M	Apl. 19	...	14	58	53.17	...	125	48	33.1	M
25	7.5	48	10.31	...	...	41	5.8	M											
26	7.5	48	10.13	...	...	41	6.2	M											
May 4	7.5	48	10.34	...	...	41	2.7	R											
218 <i>7 Ursæ Minoris β, Var. 1.</i>										224 <i>27 Libræ β</i>									
May 9	...	14	51	3.44	...	15	21	58.7	R	Apl. 30	...	15	10	42.72	...	98	57	4.0	M
10	...	51	3.43	...	...	21	58.6	R	May 1	...	10	42.67	...	...	...	57	0.8	R	
11	...	51	3.50	...	...	21	58.7	R	2	...	10	42.65	...	...	...	57	1.5	R	
12	...	51	3.29	...	...	21	56.7	R	3	...	10	42.60	...	...	...	57	1.5	R	
14	...	51	3.42	...	...	21	56.2	R	5	...	10	42.69	...	...	...	56	59.8	R	
										7	...	10	42.69	...	...	...	56	58.0	R
										8	...	10	42.69	...	...	...	57	0.3	R
										9	...	10	42.67	...	...	...	57	0.7	R
										10	...	10	42.75	...	...	...	57	0.5	R
										11	...	10	42.67	...	...	...	56	58.7	R
219 <i>Stone 8165.</i>										225 <i>R. P. L. 114—s.p.</i>									
May 2	7.0	14	52	35.28	...	129	19	46.3	R	Jan. 15	...	15	15	21.11	3	2	19	12.0	M
3	7.0	52	35.24	...	...	19	45.8	R	16	...	15	18.75	3	19	6.9	M			
4	7.0	52	35.16	...	...	19	45.7	R	17	...	15	19.82	3	19	7.2	M			
7	7.0	52	35.26	...	...	19	44.8	R											
8	7.0	52	35.15	...	...	19	44.7	R											
220 <i>R. P. L. 110.</i>										226 <i>Anon.</i>									
May 5	...	14	52	52.85	3	3	34	3.5	R	May 23	9.0	15	37	31.17	...	155	8	44.9	R
										29	9.0	37	31.02	...	...	8	46.4	R	
R. P. L. 110—s.p.										227 <i>24 Serpentis α</i>									
Jun. 12	...	14	52	52.78	3	3	34	7.9	M	May 12	...	15	38	30.39	...	83	12	17.9	R
16	...	52	54.46	4	...	34	7.1	M	14	...	38	30.41	...	...	12	18.5	R		
17	...	52	54.27	3	...	34	4.5	M	15	...	38	30.39	...	...	12	18.8	R		
										18	...	38	30.26	...	...	12	19.2	R	
										19	...	38	30.34	...	...	12	18.1	R	
										21	...	38	30.37	...	...	12	18.8	R	
										22	...	38	30.28	...	...	12	19.4	R	
										24	...	38	30.28	12	19.5	R	
221 <i>Anon.</i>																			
Apl. 19	...	14	53	29.66	...	131	49	19.8	M										
20	...	53	29.61	49	18.0	M											
21	8.0	53	29.58	49	19.5	M											

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Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
May 25	...	15 38 30.29	...	83 12 19.7	R	231 <i>R. P. L. 117.</i>					
28	...	38 30.28	...	12 18.8	R	May 18	...	16 3 14.67	3	6 2 43.2	R
31	...	38 30.31	...	12 18.7	R	19	...	3 14.88	3	2 43.0	R
June 1	...	38 30.34	...	12 18.9	R	23	...	3 14.73	3	2 44.4	R
2	...	38 30.30	...	12 17.5	R	<i>R. P. L. 117—s.p.</i>					
8	...	38 30.29	...	12 18.7	M	Jan. 1	...	16 3 13.67	3	6 2 44.5	R
228 <i>37 Serpentis e</i>						4	...	3 15.31	3	2 44.1	R
May 15	...	15 44 59.17	...	85 10 6.7	R	5	...	3 15.30	3	2 42.2	R
18	...	44 59.02	...	10 8.2	R	12	...	3 15.27	3	2 41.2	M
19	...	44 59.01	...	10 7.9	R	15	...	3 14.60	3	2 46.0	M
21	...	44 59.04	...	10 8.1	R	16	...	3 14.24	3	2 43.2	M
22	...	44 59.00	...	10 7.6	R	17	...	3 14.56	3	2 37.1	M
23	...	44 59.01	...	10 7.6	R	19	...	3 14.48	3	2 43.8	M
24	...	44 59.01	...	10 8.0	R	24	...	3 14.63	3	2 40.1	M
25	...	44 59.04	...	10 8.8	R	25	...	3 14.42	3	2 41.6	M
28	...	44 59.05	...	10 7.9	R	232 <i>Anon.</i>					
29	...	44 58.99	...	10 6.6	R	May 10	7.0	16 5 1.46	...	133 46 12.6	R
229 <i>Anon.</i>						14	7.0	5 1.63	...	46 11.9	R
June 2	...	15 46 27.92	...	130 46 29.0	R	233 <i>Anon.</i>					
8	...	46 27.85	4	46 30.0	M	May 11	8.5	16 6 5.40	...	125 29 44.8	R
20	...	46 27.79	...	46 29.3	M	12	8.5	6 5.47	...	29 45.2	R
26	...	46 28.05	...	46 31.6	M	234 <i>Stone 8832.</i>					
230 <i>R. P. L. 116.</i>						May 5	...	16 7 57.02	...	135 5 30.8	R
May 5	...	16 0 47.61	3	4 21 53.3	R	7	...	7 57.01	4	5 30.6	R
7	...	0 48.26	3	21 53.6	R	235 <i>Anon.</i>					
8	...	0 47.97	3	21 53.2	R	May 18	8.0	16 8 14.40	...	135 14 55.5	R
9	...	0 47.70	3	21 53.2	R	19	8.0	8 14.38	...	14 55.7	R
12	...	0 47.85	3	21 53.9	R	21	8.0	8 14.32	...	14 55.4	R
<i>R. P. L. 116—s.p.</i>						22	8.0	8 14.28	4	14 55.7	R
Jan. 18	...	16 0 47.16	3	4 21 53.3	M	236 <i>Stone 8853.</i>					
20	...	0 47.07	3	21 54.9	M	May 8	7.0	16 10 37.37	...	124 37 29.3	R
22	...	0 47.40	3	21 56.9	M	9	7.0	10 37.43	...	37 29.4	R
27	...	0 47.08	3	21 53.4	M	10	7.0	10 37.61	...	37 29.3	R
29	...	0 47.32	3	21 55.8	M						
30	...	0 47.26	3	21 54.0	M						

Separate Results of Madras Meridian Circle Observations in 1883.

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
237 19 <i>Ursæ Minoris</i> .																			
May 15	...	16	14	9.98	...	13	49	41.2	R	May 5	7.5	16	23	33.69	...	128	44	44.1	
18	...	14	10.05	...		49	43.3		R	243 Anon.									
238 Stone 8892.																			
May 5	6.5	16	14	44.75	...	152	51	1.7	R	244 27 <i>Herculis</i> β									
9	6.3	14	44.48	5		51	2.1		R	May 24	...	16	25	11.32	...	68	15	19.0	
10	6.3	14	44.57	..		51	1.2		R	245 Stone 8976.									
11	6.3	14	44.61	..		51	0.5		R	May 10	7.0	16	25	25.41	...	123	16	48.1	
239 20 <i>Herculis</i> γ																			
May 23	...	16	16	45.47	...	70	34	14.4	R	18	7.0	25	25.31	...		16	50.5		
25	...	16	45.48	...		34	16.0		R	19	7.0	25	25.24	...		16	50.3		
28	...	16	45.48	...		34	15.6		R	246 Anon.									
29	...	16	45.53	...		34	15.0		R	May 14	9.5	16	29	2.64	...	125	32	35.8	
30	...	16	45.46	...		34	14.7		R	15	9.5	29	2.62	...		32	36.2		
31	...	16	45.45	...		34	15.4		R	25	9.5	29	2.64	...		32	35.9		
June 1	...	16	45.48	...		34	15.7		R	247 η^1 <i>Trianguli Australis</i> .									
2	...	16	45.50	...		34	14.2		R	May 11	...	16	29	19.55	...	158	3	35.1	
8	...	16	45.60	...		34	16.1		M	12	...	29	19.57	...		3	37.0		
11	...	16	45.48	...		34	16.2		M	248 Stone 9014.									
240 Anon.																			
May 12	8.5	16	18	6.06	...	130	57	19.0	R	May 5	7.0	16	30	33.44	...	128	54	48.0	
14	8.5	18	6.13	...		57	18.6		R	249 13 <i>Ophiuchi</i> ζ									
19	8.5	18	6.20	...		57	20.0		R	May 18	...	16	30	42.98	...	100	19	43.6	
24	8.6	18	6.16	...		57	19.8		R	19	...	30	42.95	...		19	44.0		
241 21 <i>Ursæ Minoris</i> η																			
May 7	...	16	20	56.06	...	13	58	29.0	R	21	...	30	42.96	...		19	44.0		
8	...	20	56.08	...		58	29.5		R	22	...	30	43.03	...		19	44.2		
21	...	20	56.04	...		58	32.2		R	23	...	30	43.07	...		19	44.4		
23	...	20	56.21	...		58	32.7		R	24	...	30	43.00	...		19	44.2		
242 Anon.																			
May 11	8.0	16	23	32.65	...	136	25	16.1	R	28	...	30	43.02	...		19	43.9		
12	8.0	23	32.60	...		25	17.0		R	29	...	30	43.00	...		19	44.1		
14	8.0	23	32.67	...		25	17.1		R	30	...	30	42.98	...		19	44.2		
										31	...	30	42.98	...		19	44.6		
										June 2	...	30	43.03	...		19	43.3		
										7	...	30	42.99	...		19	44.0		
										8	...	30	43.00	...		19	44.4		
										11	...	30	43.05	...		19	43.8		
										14	...	30	42.94	...		19	43.5		

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
June 15	...	16 30 43.08	...	100 19 42.6	M	257 <i>Taylor 7793.</i> May 8 7.0 16 44 42.16 ... 127 23 47.9 R					
19	...	30 43.02	...	19 44.9	M						
20	...	30 43.02	...	19 44.5	M						
22	...	30 42.90	...	19 44.4	M						
26	...	30 42.98	...	19 44.6	M						
250 <i>Lacaille 6881.</i> May 9 ... 16 31 31.80 ... 157 12 5.6 R 10 ... 31 31.80 ... 12 4.3 R						258 <i>Anon.</i> May 15 9.5 16 49 0.75 ... 132 12 54.1 R 18 9.5 49 0.76 ... 12 58.0 R					
251 <i>Anon.</i> May 14 7.5 16 36 1.13 ... 128 6 36.2 R 15 7.5 36 1.11 ... 6 36.4 R 18 7.5 36 1.18 ... 6 36.2 R 19 7.5 36 1.17 ... 6 36.2 R 21 7.5 36 1.10 ... 6 36.5 R						259 <i>Anon.</i> May 5 8.5 16 50 20.26 ... 128 26 15.6 R 9 8.5 50 20.15 ... 26 18.3 R 11 8.5 50 20.12 ... 26 17.6 R 14 8.5 50 20.17 ... 26 19.0 R					
252 <i>Anon.</i> May 8 8.0 16 38 51.76 ... 125 34 31.5 R 9 8.0 38 51.78 ... 34 35.8 R						260 <i>Anon.</i> May 14 8.0 16 56 52.99 ... 129 52 39.5 R 15 8.0 56 52.92 ... 52 39.7 R 18 8.0 56 52.88 ... 52 39.8 R 19 8.0 56 52.87 ... 52 39.1 R 21 8.0 56 52.92 ... 52 40.8 R					
253 <i>Anon.</i> May 25 9.5 16 41 15.36 ... 126 18 19.8 R 23 9.5 41 15.35 ... 18 21.5 R 29 9.5 41 15.83 ... 18 21.1 R 30 9.5 41 15.81 ... 18 22.2 R						261 <i>22 Ursæ Minoris</i> May 12 ... 16 58 0.05 4 7 46 16.6 R June 15 ... 57 59.69 3 46 17.1 M					
254 <i>Anon.</i> May 10 7.0 16 41 37.68 ... 182 53 52.9 R						262 <i>Anon.</i> May 5 9.0 16 59 23.33 ... 132 35 35.5 R					
255 <i>Anon.</i> May 11 8.0 16 42 29.39 ... 127 50 30.5 R 12 8.0 42 29.48 ... 50 30.8 R 14 8.0 42 29.61 ... 50 31.5 R						263 <i>R. P. L. 118.</i> Aug. 11 ... 17 1 59.60 3 5 8 35.5 R 13 ... 1 59.25 3 8 33.9 R 14 ... 1 59.65 3 8 34.6 R 16 ... 1 58.47 3 8 35.3 R 18 ... 1 58.52 3 8 36.1 R					
256 <i>Anon.</i> May 19 7.5 16 44 2.03 ... 129 2 39.3 R 21 7.5 44 1.92 ... 2 39.8 R 22 7.5 44 1.88 ... 2 39.4 R 23 7.5 44 2.13 ... 2 39.9 R 24 7.5 44 2.14 ... 2 38.8 R											

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<i>R. P. L. 118—s.p.</i>									
Jan. 2	...	17	2	0.00	3	5	8	34.8	R
3	...	2	0.22	3		8	34.1	R	
8	...	1	59.89	3		8	34.0	M	
9	...	2	0.23	3		8	34.4	M	
19	...	1	59.48	3		8	36.5	M	
24	...	1	59.71	3		8	32.3	M	
29	...	1	59.94	3		8	37.9	M	
Feb. 1	...	1	59.39	3		8	36.0	R	
2	...	1	59.18	3		8	37.8	R	
7	...	2	0.03	3		8	35.9	M	
264 <i>Stone 9338.</i>									
May 21	7.0	17	2	48.40	...	181	17	23.9	R
22	7.0	2	48.33	...		17	24.2	R	
24	7.0	2	48.34	...		17	24.5	R	
25	7.0	2	48.36	...		17	24.2	R	
29	7.0	2	48.14	...		17	22.4	R	
265 <i>Anon.</i>									
May 15	7.5	17	2	51.11	...	131	32	55.1	R
30	7.5	2	50.91	...		32	56.0	R	
31	7.5	2	50.87	...		32	57.4	R	
June 1	7.5	2	50.85	...		32	57.0	R	
2	7.5	2	50.85	...		32	53.9	R	
266 <i>35 Ophiuchi η</i>									
June 7	...	17	3	40.08	...	105	31	41.0	R
9	...	3	40.05	...		31	42.6	M	
11	...	3	39.95	...		34	45.2	M	
14	...	3	40.13	...		34	45.9	M	
19	...	3	40.03	...		34	45.0	M	
20	...	3	40.02	...		34	43.7	M	
22	...	3	39.95	...		34	41.3	M	
26	...	3	40.09	...		34	43.9	M	
July 3	...	3	40.11	...		34	42.4	R	
4	...	3	40.10	...		34	43.1	R	
17	...	3	40.08	...		34	44.2	R	
18	...	3	40.02	...		34	43.0	R	
20	...	3	40.02	...		34	42.6	R	
24	...	3	40.06	...		34	42.6	R	
July 28	...	17	3	40.09	...	105	34	42.5	R
30	...	3	40.18	...		34	43.5	R	
31	...	3	40.12	...		34	43.3	R	
Aug. 2	...	3	40.11	...		34	42.9	R	
3	...	3	40.09	...		34	43.4	R	
4	...	3	40.11	...		34	43.6	R	
267 <i>Anon.</i>									
May 12	...	17	6	15.90	...	131	19	56.9	R
268 <i>Stone 9389.</i>									
May 14	...	17	8	59.79	...	129	17	47.7	R
15	...	8	59.80	...		17	48.2	R	
269 <i>Anon.</i>									
Aug. 9	8.0	17	9	34.38	...	128	31	56.1	R
10	8.0	9	34.35	...		31	56.1	R	
11	8.0	9	34.20	...		31	54.7	R	
14	8.0	9	34.20	...		31	55.3	R	
16	9.0	9	34.22	...		31	52.5	R	
270 <i>Anon.</i>									
June 19	9.0	17	10	16.79	...	128	20	56.4	M
20	9.0	10	16.72	...		20	55.8	M	
July 3	9.0	10	16.60	...		20	55.0	R	
4	9.0	10	16.58	...		20	55.9	R	
17	9.0	10	16.73	...		20	53.5	R	
271 <i>Anon.</i>									
July 28	8.0	17	10	47.27	...	125	57	30.9	R
30	8.0	10	47.21	...		57	33.7	R	
31	8.0	10	47.14	...		57	32.5	R	
Aug. 2	8.0	10	47.18	...		57	31.5	R	
272 <i>Stone 9428.</i>									
May 18	6.0	17	12	18.41	...	155	35	2.3	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. " ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. " ' "	Observer.
284 <i>Anon.</i>						<i>R. P. L. 120—s.p.</i>					
May 28	7.0	17 28 7.56	...	134 29 10.4	R	Jan. 18	...	17 31 46.53	3	5 17 27.0	M
285 <i>Stone 9578.</i>						19	...	31 47.29	3	17 25.6	M
Aug. 9	7.0	17 28 9.84	...	146 44 38.7	R	27	...	31 46.77	3	17 24.2	M
10	7.0	28 9.86	...	44 38.5	R	30	...	31 46.41	3	17 27.9	M
Sep. 4	...	28 9.71	...	44 38.8	M	31	...	31 46.51	3	17 26.1	M
286 <i>Brisbane 6132.</i>						Feb. 8	...	31 46.63	3	17 27.3	R
May 21	8.0	17 28 38.23	...	135 4 47.9	R	9	...	31 46.43	3	17 25.2	R
287 <i>θ Scorpii.</i>						10	...	31 46.70	3	17 25.1	R
June 2	...	17 28 54.64	...	132 55 14.3	R	12	...	31 46.48	3	17 26.3	R
8	...	28 54.63	...	55 17.7	M	14	...	31 46.60	3	17 25.2	R
9	...	28 54.56	...	55 17.8	M	291 <i>Anon.</i>					
11	...	28 54.75	5	55 18.1	M	June 20	7.0	17 32 56.29	...	130 1 35.4	M
15	...	28 54.55	...	55 16.7	M	July 4	7.0	32 56.02	...	1 35.6	R
288 <i>Anon.</i>						18	7.0	32 56.17	...	1 36.5	R
July 28	8.0	17 29 9.18	...	128 42 30.9	R	20	7.0	32 56.11	...	1 36.1	R
30	8.0	29 8.89	...	42 31.9	R	24	7.0	32 56.28	4	1 35.6	R
31	8.0	29 8.83	...	42 31.6	R	292 <i>Brisbane 6160.</i>					
Aug. 2	8.0	29 8.95	...	42 30.9	R	May 21	8.0	17 33 20.24	...	134 43 12.5	R
4	8.0	29 8.78	...	42 30.8	R	293 <i>Anon.</i>					
289 <i>Anon.</i>						Aug. 9	7.5	17 35 28.26	...	144 4 40.3	R
May 22	7.0	17 31 44.52	...	128 17 58.1	R	10	7.5	35 28.27	...	4 40.7	R
23	7.0	31 44.59	...	17 57.6	R	11	7.5	35 28.27	...	4 40.2	R
24	7.0	31 44.68	...	17 57.9	R	14	7.5	35 28.14	...	4 40.3	R
25	7.0	31 44.64	...	17 58.1	R	18	7.5	35 28.30	...	4 39.3	R
29	7.0	31 44.45	...	17 57.5	R	294 <i>60 Ophiuchi β</i>					
290 <i>R. P. L. 120.</i>						May 18	...	17 37 41.53	...	85 22 56.5	R
May 18	...	17 31 46.58	3	5 17 27.0	R	19	...	37 41.52	...	22 56.7	R
19	...	31 46.69	3	17 24.7	R	21	...	37 41.47	...	22 57.0	R
28	...	31 46.67	3	17 24.6	R	23	...	37 41.48	...	22 57.7	R
June 1	...	31 46.38	3	17 26.1	R	30	...	37 41.51	...	22 57.0	R
Aug. 25	...	31 46.63	3	17 26.6	R	June 7	...	37 41.47	...	22 53.6	R
						9	...	37 41.52	...	22 56.3	M
						14	...	37 41.43	...	22 58.2	M
						15	...	37 41.36	...	22 56.2	M
						22	...	37 41.54	...	22 58.4	M
						26	...	37 41.45	...	22 58.8	M

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
306 <i>O. A. S. 17446.</i>										312 <i>Anon.</i>									
Aug. 8	...	17	52	45.65	...	119	53	1.3	R	May 18	...	17	59	22.53	...	128	13	9.7	R
9	...	52	45.56	...			52	58.0	R	23	...	59	22.59	...		13	8.5	R	
10	...	52	45.50	...			52	58.7	R	24	...	59	22.56	...		13	7.2	R	
11	...	52	45.48	...			52	57.4	R	25	...	59	22.54	...		13	8.6	R	
13	...	52	45.50	...			52	57.3	R	28	...	59	22.64	...		13	9.8	R	
307 <i>O. A. S. 17452.</i>										313 <i>Anon.</i>									
July 24	...	17	52	58.59	...	119	48	52.3	R	Aug. 8	8.0	17	59	31.89	...	129	31	45.5	R
28	...	52	58.44	...			48	54.3	R	9	8.0	59	31.73	...		31	42.1	R	
30	...	52	58.39	...			48	55.5	R	11	8.0	59	31.50	...		31	42.3	R	
Aug. 2	...	52	58.42	...			48	53.0	R	13	8.0	59	31.65	...		31	42.6	R	
3	...	52	58.45	...	4		48	54.1	R	14	8.0	59	31.66	...		31	42.2	R	
308 <i>Anon.</i>										314 <i>Anon.</i>									
May 19	8.9	17	56	36.54	...	128	56	59.8	R	Aug. 14	7.5	18	3	31.93	...	128	12	57.1	R
309 <i>Stone 9840.</i>										16	7.5	3	22.10	...		12	57.6	R	
June 1	7.0	17	57	33.57	...	127	28	31.7	R	18	7.5	3	22.16	...		12	57.9	R	
15	7.0	57	33.59	...			28	29.6	M	25	7.5	3	22.20	...		12	57.9	R	
20	...	57	33.64	...	5		28	30.8	M	Sep. 15	...	3	22.23	...		12	58.7	M	
July 4	7.0	57	33.74	...			28	31.6	R	315 <i>Anon.</i>									
28	7.0	57	33.59	...			28	30.9	R	June 15	9.7	18	5	50.73	...	133	7	10.8	M
310 <i>Anon.</i>										316 <i>Stone 9922.</i>									
May 29	7.5	17	58	5.20	...	127	26	19.7	R	May 19	...	18	5	52.91	...	133	10	51.8	R
June 7	7.5	58	5.25	...			26	19.2	R	22	...	5	52.82	...		10	51.4	R	
9	...	58	5.53	...			26	21.3	M	23	...	5	52.84	...		10	51.3	R	
14	7.0	58	5.34	...			26	21.0	M	24	...	5	52.77	...		10	51.6	R	
23	7.5	58	5.31	...			26	19.8	M	July 4	...	5	52.88	...		10	52.8	R	
311 <i>Stone 9849.</i>										18	...	5	52.99	...		10	52.3	R	
May 30	7.0	17	58	13.11	...	127	30	7.1	R	28	...	5	53.00	...		10	51.8	R	
June 11	...	58	13.37	...	5		30	7.4	M	317 <i>Stone 9924.</i>									
July 30	7.0	58	13.28	...			30	7.5	R	May 25	7.5	18	6	0.83	...	131	56	15.1	R
31	7.0	58	13.26	...			30	7.3	R	28	7.0	6	0.80	...		56	16.1	R	
Aug. 2	7.0	58	13.18	...			30	6.7	R	29	7.0	6	0.81	...		56	15.7	R	
										30	7.0	6	0.82	...		56	16.7	R	
										June 1	7.0	6	0.76	...		56	16.2	R	

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
318 Anon.										325 58 Serpentis η									
July 30	7.5	18	6	41.76	...	126	55	48.9	R	June 11	...	18	15	15.88	...	92	55	42.6	M
Aug. 2	7.5		6	41.54	...		55	44.7	R	15	...		15	15.88	...		55	41.4	M
8	7.5		6	41.85	...		55	47.7	R	20	...		15	15.48	...		55	40.5	M
9	7.5		6	41.70	...		55	44.1	R	22	...		15	15.46	...		55	42.5	M
10	7.5		6	41.65	...		55	44.8	R	July 3	...		15	15.82	...		55	40.5	R
										4	...		15	15.18	...		55	41.6	R
										17	...		15	15.28	4		55	40.4	R
										18	...		15	15.28	...		55	41.9	R
										20	...		15	15.29	...		55	41.7	R
										24	...		15	15.32	...		55	41.2	R
										28	...		15	15.31	...		55	42.5	R
										30	...		15	15.28	...		55	40.2	R
										31	...		15	15.31	...		55	40.0	R
										Aug. 2	...		15	15.26	...		55	41.1	R
										3	...		15	15.25	...		55	41.5	R
										4	...		15	15.23	...		55	42.1	R
										8	...		15	15.23	...		55	40.2	R
										9	...		15	15.28	...		55	41.6	R
										10	...		15	15.27	...		55	41.6	R
										11	...		15	15.31	...		55	41.9	R
										326 Anon.									
										Aug. 16	7.0	18	15	22.20	...	128	47	32.3	R
										Sep. 5	...		15	22.38	6		47	28.0	M
										15	...		15	22.25	...		47	30.2	M
										17	...		15	22.39	6		47	28.8	M
										327 Anon.									
										May 19	7.0	18	15	42.50	...	136	50	53.0	R
										22	7.0		15	42.38	...		50	53.4	R
										23	7.0		15	42.38	...		50	53.0	R
										24	7.0		15	42.29	...		50	53.2	R
										328 Anon.									
										May 18	8.0	18	16	32.65	...	127	17	6.3	R
										329 22 Sagittarii λ									
										June 8	...	18	20	44.96	...	115	29	3.1	M
										July 4	...		20	45.08	...		29	8.0	R
										18	...		20	45.07	...		29	6.7	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
July 20	...	18 20 45.00	...	115 29 5.2	R	Aug. 14	8.5	18 30 45.30	...	127 5 57.3	R
24	...	20 44.80	...	29 4.9	R	16	8.5	30 45.48	...	5 57.2	R
28	...	20 45.03	...	29 6.1	R	18	8.5	30 45.43	...	5 57.5	R
30	...	20 44.91	...	29 5.6	R	25	8.5	30 45.38	...	5 57.1	R
Aug. 2	...	20 44.94	...	29 6.9	R	334 <i>Anon.</i>					
3	...	20 44.97	...	29 6.5	R	July 4	9.0	18 30 55.10	...	127 58 16.9	R
4	...	20 44.93	...	29 5.2	R	Aug. 8	9.0	30 55.36	...	58 17.9	R
8	...	20 44.95	...	29 7.8	R	9	9.0	30 55.23	...	58 19.0	R
9	...	20 45.00	...	29 4.5	R	10	9.0	30 55.23	...	58 18.7	R
10	...	20 45.02	...	29 4.6	R	11	9.0	30 55.29	...	58 18.3	R
11	...	20 44.98	...	29 6.1	R	335 <i>Anon.</i>					
13	...	20 44.98	...	29 4.8	R	June 7	7.5	18 31 24.82	...	127 23 13.8	R
14	...	20 44.97	...	29 7.2	R	8	...	31 25.07	6	23 14.0	M
16	...	20 45.00	...	29 6.5	R	9	7.5	31 24.78	...	23 12.1	M
18	...	20 45.00	...	29 7.3	R	14	7.5	31 24.80	...	23 15.0	M
25	...	20 44.90	...	29 7.1	R	336 <i>Stone 10154.</i>					
28	...	20 44.95	...	29 6.1	R	May 18	...	18 32 12.34	...	134 16 33.9	R
330 <i>Anon.</i>						19	...	32 12.16	...	16 33.8	R
May 23	9.5	18 22 46.00	...	129 38 40.7	R	23	...	32 13.17	...	16 32.1	R
28	9.5	22 46.28	...	38 50.8	R	337 <i>Anon.</i>					
29	9.5	22 45.98	...	38 50.7	R	May 25	8.0	18 34 2.21	...	125 42 3.8	R
30	9.5	22 45.97	...	38 51.3	R	28	8.0	34 2.13	...	42 4.9	R
June 1	9.5	22 45.89	...	38 51.0	R	29	8.0	34 2.38	...	42 6.3	R
331 <i>Anon.</i>						30	8.0	34 2.36	...	42 6.5	R
June 7	7.0	18 23 24.78	...	127 40 10.1	R	June 1	8.0	34 2.29	...	42 6.1	R
9	...	23 24.77	...	40 12.1	M	338 <i>Anon.</i>					
11	...	23 24.90	...	40 10.2	M	Aug. 28	8.0	18 34 16.75	...	124 34 19.6	R
15	7.0	23 24.73	...	40 10.4	M	Sep. 4	...	34 16.61	...	34 18.0	M
22	7.0	23 24.84	...	40 11.8	M	13	...	34 16.56	...	34 17.0	M
332 <i>Stone 10124</i>						15	7.8	34 16.56	...	34 17.8	M
May 24	7.0	18 29 26.83	...	131 42 30.5	R	17	...	34 16.85	3	34 16.6	M
28	7.0	29 26.80	...	12 31.5	R	333 <i>Anon.</i>					
29	7.0	29 26.82	...	42 33.4	R	June 22	8.5	18 30 45.26	...	127 5 56.9	M
30	7.0	29 26.78	...	42 33.6	R	Aug. 13	8.5	30 45.18	...	5 57.5	R
June 1	7.0	29 26.63	...	42 34.4	R						

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
339 <i>Stone 10187.</i>										344 <i>Stone 10239.</i>									
July 30	8·0	18	36	45·21	...	127	0	6·9	R	Aug. 8	...	18	42	49·64	...	134	36	22·9	R
Aug. 10	7·5		36	45·06	...		0	8·8	R	9	...		42	49·50	...		36	20·6	R
13	7·5		36	45·12	...		0	7·2	R	10	...		42	49·55	...		36	20·3	R
16	7·5		36	45·11	...		0	7·7	R	11	...		42	49·59	...		36	19·7	R
18	7·5		36	45·07	...		0	8·3	R	13	...		42	49·30	...		36	19·6	R
										14	...		42	49·36	...		36	19·4	R
340 <i>Taylor 8599.</i>										345 <i>Anon.</i>									
June 11	...	18	36	49·54	...	139	48	6·8	M	June 15	8·0	18	43	30·96	...	134	49	12·8	M
15	...		36	49·30	...		48	5·2	M	Sep. 4	8·8		43	31·07	...		49	14·2	M
July 18	...		36	49·52	...		48	7·2	R	15	7·7		43	31·00	...		49	14·7	M
20	...		36	49·48	...		48	6·8	R	22	...		43	30·98	...		49	11·6	M
Aug. 11	...		36	49·24	...		48	6·8	R	26	8·0		43	31·44	...		49	18·6	M
14	...		36	49·38	...		48	6·2	R										
341 <i>Taylor 8600.</i>										346 <i>Taylor 8647.</i>									
June 14	7·5	18	36	51·35	5	129	51	37·3	M	Sep. 13	...	18	43	38·58	...	134	40	15·5	M
20	7·0		36	51·40	5		51	36·5	M	20	...		43	38·66	...		40	15·8	M
July 3	7·0		36	51·48	...		51	36·4	R	27	7·0		43	38·48	6		40	13·8	M
4	7·0		36	51·55	...		51	37·7	R	29	7·5		43	38·59	...		40	15·3	M
Aug. 9	7·0		36	51·59	...		51	37·4	R										
342 <i>Anon.</i>										347 <i>Anon.</i>									
May 18	7·5	18	38	45·46	...	131	16	59·7	R	Aug. 28	8·0	18	43	48·76	...	125	31	1·6	R
19	7·5		38	45·43	...		16	59·6	R	Sep. 14	7·8		43	48·70	6		31	1·6	M
24	7·5		38	45·57	...		17	1·3	R	28	...		43	48·89	...		31	2·8	M
25	7·5		38	45·56	...		17	1·7	R										
28	7·5		38	45·55	...		17	0·5	R										
343 <i>Anon.</i>										348 <i>Anon.</i>									
May 29	9·0	18	39	14·20	...	128	56	33·9	R	May 29	9·5	18	45	24·16	...	129	28	13·2	R
30	9·0		39	14·16	...		56	34·3	R	30	9·0		45	24·12	...		28	13·7	R
June 1	9·0		39	14·17	...		56	34·3	R	June 1	9·0		45	24·04	...		28	13·5	R
7	9·0		39	13·90	...		56	33·7	R	14	9·0		45	24·31	...		28	14·3	M
8	9·0		39	14·43	...		56	33·7	M										
349 <i>Anon.</i>										349 <i>Anon.</i>									
										Aug. 14	8·0	18	47	6·37	...	133	50	45·8	R
										18	8·0		47	6·66	4		50	47·0	R
										25	8·0		47	6·52	...		50	46·6	R
										Sep. 17	...		47	6·61	...		50	45·4	M
										24	8·0		47	6·56	...		50	47·7	M

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Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
350 <i>Taylor 8685.</i>						Aug. 14	...	18 54 18.74	...	75 5 22.2	R
Aug. 8	...	18 48 44.25	...	127 29 28.8	R	16	...	54 18.63	...	5 22.6	R
9	...	48 44.33	...	29 24.8	R	18	...	54 18.62	...	5 21.6	R
10	...	48 44.07	...	29 24.3	R	25	...	54 18.67	...	5 22.2	R
11	...	48 44.09	...	29 26.0	R	28	...	54 18.65	...	5 21.2	R
13	...	48 44.09	...	29 23.3	R	Sep. 4	...	54 18.55	...	5 23.3	M
351 <i>Anon.</i>						5	...	54 18.57	...	5 22.8	M
May 30	9.5	18 52 14.82	...	132 56 57.4	R	10	...	54 18.64	...	5 21.3	M
352 <i>Taylor 8715.—1st.</i>						11	...	54 18.60	...	5 22.3	M
July 30	7.5	18 53 8.67	...	127 13 16.5	R	356 <i>Stone 10351.</i>					
Sep. 15	7.0	53 8.66	...	13 16.0	M	Sep. 29	6.0	18 55 18.37	...	128 25 13.5	M
25	...	53 8.53	5	13 14.8	M	Oct. 1	6.0	55 18.18	...	25 14.2	R
27	7.3	53 8.68	...	13 15.7	M	4	6.0	55 18.21	4	25 11.5	R
28	...	53 8.66	...	13 16.3	M	5	6.0	55 18.23	...	25 11.8	R
353 <i>Taylor 8715.—2nd.</i>						357 <i>Anon.</i>					
Sep. 17	7.5	18 53 9.90	...	127 13 19.1	M	June 15	7.5	19 0 12.02	...	135 15 25.2	M
20	...	53 9.67	...	13 19.3	M	Sep. 4	7.5	0 11.69	...	15 26.8	M
22	...	53 9.78	...	13 18.1	M	13	...	0 11.79	...	15 25.5	M
24	...	53 9.74	...	13 19.2	M	14	...	0 11.69	5	15 26.3	M
26	7.3	53 9.80	...	13 18.2	M	15	7.5	0 11.72	...	15 26.9	M
354 <i>Anon.</i>						358 <i>Stone 10391.</i>					
July 28	8.5	18 53 54.82	...	128 6 55.2	R	Sep. 26	7.3	19 0 33.03	...	132 36 21.5	M
Sep. 14	8.5	53 54.91	...	6 57.3	M	27	7.3	0 33.01	...	36 21.9	M
355 <i>13 Aquilæ ε</i>						359 <i>Stone 10400.</i>					
June 1	...	18 54 18.66	...	75 5 23.2	R	June 11	...	19 1 34.60	...	130 0 36.7	M
7	...	54 18.62	...	5 21.6	R	14	...	1 34.39	...	0 38.8	M
9	...	54 18.66	...	5 21.4	M	22	...	1 34.44	...	0 37.6	M
14	...	54 18.67	...	5 24.5	M	July 18	...	1 34.78	...	0 38.3	R
15	...	54 18.67	...	5 22.2	M	30	...	1 34.64	...	0 38.9	R
20	...	54 18.47	...	5 22.1	M	360 <i>Anon.</i>					
Aug. 8	...	54 18.67	...	5 23.5	R	Aug. 11	8.0	19 4 10.15	...	135 27 42.0	R
9	...	54 18.62	...	5 22.1	R	13	9.0	4 9.97	...	27 41.4	R
10	...	54 18.66	...	5 22.9	R	14	8.5	4 10.01	...	27 41.5	R
11	...	54 18.58	...	5 22.2	R						
13	...	54 18.62	...	5 22.7	R						

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361 <i>Stone 10420.</i>						369 <i>Stone 10467.</i>					
Sep. 28	...	19 4 14.46	..	127 46 29.6	M	June 22	7.0	19 12 30.34	...	135 35 11.5	M
29	...	4 14.58	...	46 27.6	M	July 28	7.0	12 30.49	...	85 10.8	R
Oct. 1	...	4 14.52	...	46 27.5	R	30	7.0	12 30.36	...	35 10.9	R
4	...	4 14.47	...	46 26.0	R	Aug. 9	7.0	12 30.46	...	35 13.0	R
5	...	4 14.52	...	46 27.1	R	10	7.0	12 30.47	...	35 12.5	R
362 <i>Stone 10432.</i>						370 <i>Stone 10487.</i>					
Aug. 8	...	19 6 8.82	...	135 23 26.3	R	Sep. 26	7.0	19 14 14.69	...	119 49 18.6	M
9	...	6 8.73	...	23 22.6	R	27	7.0	14 14.61	...	49 17.8	M
363 <i>Anon.</i>						28	7.0	14 14.37	...	49 19.1	M
Aug. 25	7.5	19 7 41.64	...	129 24 5.0	R	Oct. 6	7.0	14 14.61	5	49 15.4	R
28	7.5	7 41.62	...	24 5.5	R	371 <i>Anon.</i>					
364 <i>Taylor 8823.</i>						Aug. 25	...	19 14 18.73	...	127 26 18.0	R
June 15	...	19 7 50.29	...	135 40 3.9	M	28	...	14 18.71	...	26 18.4	R
Sep. 4	...	7 50.27	...	40 4.2	M	Sep. 12	...	14 18.99	...	26 17.5	M
10	...	7 50.37	4	40 0.2	M	13	...	14 18.63	...	26 18.4	M
13	...	7 50.27	...	40 3.9	M	15	...	14 18.81	...	26 18.6	M
15	...	7 50.28	...	40 4.8	M	372 <i>Anon.</i>					
20	...	7 50.32	...	40 6.3	M	July 30	9.0	19 17 6.91	...	130 4 35.8	R
365 <i>Stone 10451.</i>						Aug. 11	9.0	17 6.72	...	4 37.5	R
Sep. 11	...	19 8 52.41	5	135 37 34.5	M	373 <i>49 Sagittarii χ^3</i>					
14	...	8 52.26	...	37 33.6	M	Sep. 29	6.0	19 18 24.67	...	114 11 26.5	M
22	...	8 52.39	5	37 32.2	M	Oct. 9	6.0	18 24.62	...	11 22.9	R
24	...	8 52.24	...	37 33.6	M	374 <i>Anon.</i>					
366 <i>Anon.</i>						Aug. 8	9.5	19 19 47.82	...	130 13 15.7	R
Aug. 13	9.5	19 10 13.33	...	130 46 34.5	R	18	9.5	19 47.69	...	13 11.6	R
14	9.5	10 13.37	...	46 34.1	R	14	9.5	19 47.66	...	13 10.7	R
367 <i>Anon.</i>						16	9.5	19 47.76	...	13 11.1	R
Aug. 11	7.5	19 10 40.16	...	129 45 12.3	R	25	9.5	19 47.89	...	13 10.8	R
368 <i>Stone 10465.</i>						375 <i>Stone 10534.</i>					
Oct. 1	6.0	19 11 54.50	...	125 37 58.8	R	Sep. 27	...	19 21 55.28	...	125 19 13.4	M
4	6.0	11 54.47	4	37 59.0	R	28	...	21 55.30	...	19 13.6	M
5	6.0	11 54.76	...	37 59.8	R	Oct. 5	...	21 55.21	...	19 12.8	R
						9	...	21 55.09	...	19 14.7	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
376 <i>Anon.</i>										384 <i>Stone 10598.</i>									
July 28	8.0	19	22	5.66	4	132	34	15.8	R	Oct. 9	6.7	19	31	57.21	...	129	41	45.9	R
30	8.0		22	5.78	...		34	17.4	R	13	6.7		31	57.31	...		41	48.3	R
Sep. 4	8.0		22	5.66	...		34	16.1	M	385 <i>Anon.</i>									
13	...		22	5.76	...		34	16.7	M	Oct. 5	7.5	19	33	25.30	3	126	35	58.9	R
377 <i>Anon.</i>										386 <i>Stone 10622.</i>									
Aug. 8	9.0	19	25	49.63	...	133	42	50.9	R	Sep. 27	...	19	35	48.41	...	127	48	47.6	M
378 <i>Anon.</i>										29	...		35	48.42	...		48	46.8	M
Sep. 14	...	19	25	58.47	...	146	55	2.1	M	387 <i>Stone 10624.</i>									
15	...		25	58.58	...		55	2.5	M	Oct. 11	7.0	19	36	21.45	...	131	53	7.0	R
379 <i>Taylor 8982.</i>										13	7.0		36	21.60	...		53	9.1	R
Oct. 11	...	19	28	35.13	...	148	14	24.0	R	18	7.0		36	21.50	...		53	8.0	R
380 <i>Stone 10583.</i>										388 <i>R. P. L. 133.</i>									
July 30	7.5	19	29	32.25	...	131	42	59.3	R	Aug. 4	...	19	37	47.34	3	4	9	17.0	R
Aug. 9	7.0		29	32.24	...		42	58.9	R	8	...		37	47.43	3		9	18.3	R
10	7.0		29	32.26	...		42	58.5	R	9	...		37	47.19	3		9	16.1	R
11	7.0		29	32.29	...		42	57.7	R	10	...		37	47.27	3		9	16.4	R
16	7.0		29	32.21	...		42	57.8	R	11	...		37	47.50	3		9	16.4	R
381 <i>Anon.</i>										13	...		37	45.18	3		9	17.2	R
Aug. 25	8.0	19	29	45.56	...	125	29	57.6	R	16	...		37	47.70	3		9	15.7	R
28	8.0		29	45.56	...		29	57.5	R	Sep. 4	...		37	45.61	3		9	16.4	M
Sep. 4	8.0		29	45.72	6		29	57.9	M	<i>R. P. L. 133.--s.p.</i>									
13	...		29	45.67	...		29	58.2	M	Jan. 27	...	19	37	47.14	3	4	9	18.0	M
382 <i>Anon.</i>										29	...		37	46.94	3		9	17.2	M
July 28	8.0	19	30	11.05	...	129	1	3.4	R	30	...		37	48.00	3		9	16.6	M
383 <i>Stone 10594.</i>										Feb. 1	...		37	46.84	2		9	18.1	R
Sep. 26	6.0	19	31	17.28	...	135	32	34.4	M	2	...		37	47.27	8		9	19.0	R
27	6.0		31	17.39	...		32	33.9	M	8	...		37	47.11	3		9	18.8	R
28	6.0		31	17.06	...		32	34.6	M	389 <i>R. P. L. 134.</i>									
29	6.0		31	17.33	...		32	34.0	M	Aug. 8	...	19	39	34.07	3	4	9	34.9	R
Oct. 1	6.0		31	17.06	...		32	34.2	R	9	...		39	34.88	3		9	32.0	R
										11	...		39	35.03	3		9	31.6	R
										13	...		39	35.01	3		9	31.2	R
										Sep. 14	...		39	34.91	3		9	32.5	M
										28	...		39	35.15	3		9	31.8	M

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<i>R. P. L. 134.—s.p.</i>						394 <i>Taylor 9112.</i>					
Jan. 31	...	19 39 36.11	3	4 9 31.1	M	July 28	...	19 43 53.70	...	130 10 9.2	R
Feb. 7	...	39 35.88	3	9 31.7	M	30	...	43 53.59	...	10 9.8	R
10	...	39 34.25	3	9 32.1	R	395 <i>Stone 10677.</i>					
13	...	39 34.45	3	9 29.9	R	Aug. 25	...	19 43 59.76	...	127 37 47.6	R
14	...	39 34.56	3	9 32.5	R	Sep. 11	...	43 59.66	...	37 48.3	M
15	...	39 34.60	3	9 31.5	R	17	...	43 59.75	...	37 46.1	M
19	...	39 33.98	3	9 32.5	R	25	...	43 59.78	...	37 48.5	M
20	...	39 34.27	3	9 32.2	R	27	...	43 59.94	...	37 48.6	M
24	...	39 35.06	3	9 33.5	R	396 <i>Taylor 9131.</i>					
28	...	39 34.23	3	9 33.8	R	Sep. 26	...	19 47 16.69	3	148 13 53.3	M
390 <i>Anon.</i>						Oct. 4	...	47 16.48	...	13 50.4	R
July 28	8.0	19 39 48.78	...	125 27 35.5	R	397 <i>Anon.</i>					
30	8.0	39 48.69	...	27 36.3	R	Aug. 9	8.5	19 48 9.48	...	131 59 53.2	R
Aug. 14	8.0	39 48.77	...	27 35.9	R	Sep. 15	...	48 9.76	...	59 52.9	M
391 <i>Anon.</i>						398 <i>Anon.</i>					
Aug. 18	7.0	19 40 25.79	...	128 8 5.9	R	Sep. 20	...	19 50 19.15	6	132 59 35.1	M
Sep. 12	...	40 25.68	...	8 5.6	M	399 <i>Stone 10720.</i>					
20	...	40 25.76	5	8 7.8	M	Oct. 5	...	19 50 30.01	...	126 59 46.3	R
22	...	40 25.75	...	8 5.5	M	9	...	50 30.12	...	59 51.3	R
26	7.3	40 25.73	...	8 5.6	M	17	...	50 30.24	...	59 40.6	R
392 <i>Stone 10658.</i>						18	...	50 30.03	...	59 47.9	R
Sep. 15	7.0	19 41 45.06	...	128 4 2.6	M	19	...	50 30.21	...	59 49.0	R
21	...	41 45.05	6	4 1.2	M	400 <i>Stone 10727.</i>					
24	7.0	41 45.14	...	4 3.0	M	Sep. 27	7.0	19 51 34.65	...	120 51 1.9	M
29	7.0	41 45.12	5	4 1.2	M	28	6.0	51 34.64	5	51 2.5	M
Oct. 1	7.0	41 44.91	8	4 2.2	R	29	7.0	51 34.41	...	51 2.2	M
5	7.0	41 44.80	...	3 59.6	R	Oct. 1	6.7	51 34.58	...	51 3.2	R
393 <i>Stone 10665.</i>						4	6.7	51 34.67	...	51 0.5	R
Oct. 11	6.7	19 42 49.62	...	141 16 10.4	R	401 <i>Stone 10739.</i>					
13	6.7	42 49.73	...	16 12.5	R	Oct. 11	6.5	19 52 18.13	...	133 21 33.5	R
18	6.7	42 49.80	...	16 11.8	R	13	6.5	52 18.13	...	21 40.3	R
19	6.7	42 49.86	...	16 11.7	R	20	6.5	52 17.98	...	21 38.5	M
20	6.7	42 49.78	...	16 10.6	M	22	6.5	52 18.07	...	21 38.0	R

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402 <i>Stone 10752.</i>						409 <i>Stone 10797.</i>					
Aug. 28	8.5	19 53 51.52	...	126 59 56.9	R	Oct. 9	...	20 0 38.85	...	137 24 11.2	R
Sep. 15	7.0	53 51.54	5	59 55.2	M	10	...	0 38.82	...	24 11.4	R
19	...	53 51.70	6	59 58.9	M	20	...	0 38.94	...	24 13.5	M
22	7.0	53 51.60	...	59 56.8	M	410 <i>Stone 10823.</i>					
24	...	53 51.54	4	59 57.8	M	Oct. 11	6.7	20 5 6.40	...	138 8 38.5	R
403 <i>Anon.</i>						13	6.7	5 6.55	...	3 39.6	R
Aug. 16	8.0	19 54 25.56	...	130 18 18.3	R	18	6.7	5 6.55	...	3 37.2	R
404 <i>Taylor 9195.</i>						19	6.7	5 6.59	...	3 38.4	R
Oct. 1	...	19 55 46.78	...	128 15 46.9	R	22	6.7	5 6.74	...	3 38.8	R
6	...	55 46.79	...	15 44.3	R	411 <i>65 Aquila θ</i>					
9	...	55 46.71	...	15 45.3	R	Aug. 9	...	20 5 15.98	...	91 10 4.3	R
10	...	55 46.69	...	15 46.1	R	10	...	5 16.00	...	10 4.4	R
17	...	55 46.96	...	15 47.4	R	11	...	5 16.04	...	10 3.7	R
405 <i>Anon.</i>						13	...	5 16.03	...	10 2.4	R
Aug. 13	9.0	19 56 54.59	...	131 48 51.0	R	14	...	5 15.90	...	10 2.1	R
14	9.0	56 54.60	...	48 50.7	R	16	...	5 16.00	...	10 2.4	R
18	9.0	56 54.87	...	48 50.5	R	18	...	5 15.99	...	10 3.2	R
Sep. 14	9.0	56 54.71	...	48 49.7	M	25	...	5 16.04	...	10 2.6	R
406 <i>Taylor 9213.</i>						28	...	5 16.00	...	10 3.7	R
Oct. 11	...	19 58 21.94	...	145 20 58.5	R	Sep. 3	...	5 16.09	...	10 3.3	M
13	...	58 21.79	...	21 1.3	R	25	...	5 16.03	...	10 2.8	M
18	...	58 21.72	...	21 0.0	R	26	...	5 16.02	...	10 4.9	M
19	...	58 21.90	...	20 59.7	R	27	...	5 16.10	...	10 5.6	M
22	...	58 21.96	...	21 0.7	R	28	...	5 16.02	...	10 5.9	M
407 <i>Anon.</i>						20	...	5 16.12	...	10 3.4	M
Aug. 8	9.5	19 58 30.55	...	148 10 38.2	R	Oct. 1	...	5 16.00	...	10 2.7	R
9	9.5	58 30.44	...	10 36.4	R	3	...	5 16.03	...	10 1.4	R
408 <i>Stone 10792.</i>						4	...	5 15.97	...	10 1.8	R
Sep. 26	...	19 59 43.92	6	125 52 0.6	M	5	...	5 15.98	...	10 1.6	R
27	...	59 43.76	...	52 0.0	M	6	...	5 15.94	...	10 1.0	R
28	...	59 43.83	5	51 59.5	M	412 <i>Taylor 9303.</i>					
29	...	59 43.73	...	51 59.8	M	Oct. 10	...	20 7 59.36	...	117 22 51.7	R
Oct. 5	...	59 43.78	...	51 58.6	R	17	...	7 59.45	...	22 52.9	R
413 <i>Stone 10840.</i>						413 <i>Stone 10840.</i>					
						Oct. 5	...	20 8 46.85	...	126 48 33.1	R
						9	...	8 46.88	...	48 33.2	R
						20	...	8 46.54	...	48 35.2	M
						23	...	8 46.50	...	48 35.6	R
						25	...	8 46.68	...	48 35.4	R

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Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.	No. of Wires.	Mean Polar Distance 1883. ° ' "	Observer.
414 <i>Stone 10858.</i>						420 <i>R. P. L. 138.</i>					
Aug. 8	7.0	20 10 48.27	...	134 53 16.2	R	Aug. 4	...	20 16 18.81	3	5 40 32.0	R
11	7.0	10 48.19	...	53 14.5	R	Sep. 4	...	16 19.55	3	40 31.8	M
Sep. 4	7.0	10 47.98	...	53 11.0	M	14	...	16 18.00	3	40 30.0	M
415 <i>Stone 10859.</i>						15	...	16 17.95	3	40 29.5	M
Sep. 27	7.0	20 10 52.80	...	137 56 12.5	M	28	...	16 16.91	3	40 29.7	M
29	6.7	10 52.70	4	56 11.6	M	421 <i>Anon.</i>					
Oct. 1	6.7	10 52.63	3	56 11.9	R	Sep. 17	...	20 20 6.49	...	130 23 42.1	M
6	6.7	10 52.73	...	56 9.0	R	27	8.0	20 6.53	4	23 43.5	M
11	6.7	10 52.57	...	56 12.4	R	29	7.5	20 6.65	...	23 43.6	M
416 <i>Taylor 9343.</i>						422 <i>Taylor 9415.</i>					
Oct. 18	6.7	20 13 10.81	...	140 21 32.9	R	Oct. 8	...	20 21 15.81	...	125 58 48.1	R
23	6.7	13 10.90	...	21 33.8	R	9	...	21 15.99	...	58 50.9	R
24	6.7	13 10.98	...	21 33.6	R	10	...	21 15.99	...	58 50.2	R
25	6.7	13 11.03	...	21 33.7	R	11	...	21 16.06	...	58 51.1	R
417 <i>Stone 10884.</i>						13	...	21 16.19	...	58 52.1	R
Sep. 5	...	20 13 48.99	...	123 6 21.7	M	423 <i>Stone 10939.</i>					
10	...	13 48.88	4	6 17.9	M	Oct. 17	6.0	20 23 46.65	...	119 30 12.7	R
11	...	13 49.09	5	6 19.3	M	18	6.3	23 46.93	...	30 10.4	R
14	...	13 48.90	6	6 21.2	M	19	6.3	23 46.70	...	30 12.7	R
15	...	13 48.86	...	6 21.6	M	20	6.5	23 46.65	...	30 11.3	M
418 <i>Anon.</i>						22	6.3	23 46.70	...	30 12.5	R
Aug. 16	8.0	20 14 42.91	...	133 19 33.0	R	424 <i>Taylor 9464.</i>					
Sep. 17	...	14 42.91	5	19 31.8	M	Oct. 10	7.0	20 26 40.72	...	112 37 36.1	R
22	...	14 42.96	...	19 30.2	M	11	7.0	26 40.77	...	37 37.1	R
25	...	14 43.11	5	19 31.2	M	23	7.0	26 40.93	...	37 37.2	R
26	8.0	14 43.07	...	19 31.2	M	25	7.0	26 40.64	...	37 37.6	R
419 <i>Taylor 9370.</i>						425 <i>R. P. L. 143.</i>					
Oct. 8	...	20 15 55.43	5	132 47 51.8	R	July 28	...	20 26 58.79	3	5 14 40.0	R
9	...	15 55.57	...	47 49.0	R						
10	...	15 55.55	...	47 49.3	R						
17	...	15 55.68	...	47 50.2	R						
19	...	15 55.64	...	47 51.2	R						

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Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883.			No. of Wires.	Mean Polar Distance 1883.		
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>
426 2 Delphini ε																		
Sep. 4	...	20	27	37·43	...	79	5	37·6	M	Oct. 11	...	20	35	12·87	...	129	58	32·8
5	...	27	37·33	...	...	5	34·1	M	25	...	35	13·06	...	...	58	34·4
10	...	27	37·39	...	...	5	36·4	M	Nov. 6	...	35	13·08	...	...	58	32·8
11	...	27	37·40	5	37·5	M	430 Taylor 9561.									
12	...	27	37·32	5	37·5	M	Oct. 10	...	20	37	14·09	...	126	14	53·6	
13	...	27	37·22	...	...	5	37·8	M	19	...	37	14·27	...	...	14	54·1
14	...	27	37·26	...	...	5	37·7	M	22	...	37	14·49	...	...	14	52·8
15	...	27	37·37	...	...	5	37·5	M	24	...	37	14·34	...	...	14	55·5
17	...	27	37·41	5	36·7	M	431 Anon.									
19	...	27	37·37	5	37·3	M	Sep. 25	...	20	37	38·58	4	126	31	44·9	
20	...	27	37·30	...	...	5	38·5	M	26	8·0	37	38·24	...	...	31	44·1
21	...	27	37·25	...	...	5	37·0	M	27	...	37	38·32	...	...	31	44·2
22	...	27	37·18	...	...	5	35·8	M	28	...	37	38·39	6	...	31	44·8
24	...	27	37·38	5	39·1	M	432 Taylor 9573.									
25	...	27	37·26	5	37·0	M	Oct. 18	...	20	39	21·06	...	136	16	48·8	
26	...	27	37·29	...	...	5	38·6	M	23	...	39	21·14	...	...	16	49·7
27	...	27	37·27	5	39·0	M	433 2 Aquarii ε									
28	...	27	37·33	5	38·4	M	Sep. 3	...	20	41	20·45	...	99	55	24·1	
29	...	27	37·33	...	...	5	37·4	M	4	...	41	20·43	...	...	55	23·8
Oct. 1	...	27	37·26	...	...	5	38·3	R	5	...	41	20·50	...	...	55	24·5
3	...	27	37·28	...	...	5	36·3	R	10	...	41	20·38	...	...	55	23·7
4	...	27	37·33	...	...	5	34·8	R	11	...	41	20·39	...	...	55	23·8
5	...	27	37·34	...	...	5	34·9	R	12	...	41	20·51	...	...	55	23·6
6	...	27	37·17	...	...	5	36·3	R	13	...	41	20·43	...	...	55	23·4
8	...	27	37·36	...	...	5	37·6	R	14	...	41	20·48	...	...	55	24·2
427 Stone 11003.										15	...	41	20·49	55	25·4	
Oct. 9	...	20	32	23·46	4	126	26	32·3	R	17	...	41	20·44	55	23·1	
19	...	32	23·52	...	...	26	34·4	R	19	...	41	20·36	...	...	55	23·8
20	...	32	23·23	...	...	26	32·9	M	20	...	41	20·37	...	...	55	25·3
23	...	32	23·51	6	...	26	33·1	R	21	...	41	20·36	...	...	55	22·8
24	...	32	23·47	...	...	26	31·8	R	22	...	41	20·59	...	...	55	23·9
428 Taylor 9519.										24	...	41	20·57	55	24·5	
Sep. 4	...	20	33	34·17	5	132	32	46·5	M	Oct. 1	...	41	20·50	55	22·7	
15	...	33	34·17	...	...	32	47·9	M	3	...	41	20·44	...	...	55	21·6
429 Taylor 9544.										4	...	41	20·45	55	23·8	
Oct. 5	...	20	35	13·01	...	129	58	29·9	R	5	...	41	20·40	55	24·1	
6	...	35	13·08	58	30·6	R	6	...	41	20·49	55	21·9		
										8	...	41	20·43	55	23·0	

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434	<i>Anon.</i>					442	<i>Anon.</i>				
Sep. 29	...	20 41 44.10	...	132 8 36.9	M	Sep. 14	8.5	20 53 32.77	5	129 10 31.8	M
						15	...	52 32.71	...	10 33.4	M
435	<i>Taylor 9602.</i>					443	<i>Stone 11150.</i>				
Oct. 9	6.3	20 42 20.49	...	116 12 42.5	R	Sep. 12	...	20 53 34.41	...	129 11 31.8	M
10	6.3	42 20.43	...	12 44.0	R						
11	6.3	42 20.61	...	12 42.6	R						
19	6.3	42 20.61	...	12 44.4	R						
22	6.3	42 20.66	...	12 42.7	R						
436	<i>Stone 11081.</i>					444	<i>Stone 11156.</i>				
Sep. 25	...	20 43 59.40	...	131 20 28.7	M	Oct. 8	6.7	20 54 13.32	...	123 21 7.2	R
						9	6.7	54 13.50	...	21 5.9	R
						10	6.7	54 13.52	...	21 6.2	R
						11	6.7	54 13.39	...	21 5.1	R
						18	6.7	54 13.33	...	21 8.2	R
437	<i>Stone 11091.</i>					445	<i>Stone 11175.</i>				
Oct. 23	...	20 44 40.91	...	142 9 10.9	R	Aug. 28	8.0	20 56 1.50	...	142 21 24.3	R
						Oct. 6	7.0	56 1.31	...	21 20.5	R
438	<i>Anon.</i>					17	7.0	56 1.35	...	21 22.2	R
Sep. 26	8.0	20 45 22.48	...	135 45 24.7	M	20	7.0	56 1.46	...	21 21.1	M
27	8.0	45 22.39	...	45 25.2	M	22	7.0	56 1.64	...	21 22.4	R
Oct. 4	8.0	45 22.37	...	45 22.4	R						
439	<i>Stone 11103.</i>					446	<i>Stone 11186.</i>				
Aug. 28	...	20 46 13.44	...	141 10 4.7	R	Oct. 5	7.0	20 57 44.20	...	127 41 20.1	R
Sep. 4	...	46 13.41	...	10 1.0	M	23	7.0	57 44.27	...	41 32.2	R
12	...	46 13.35	...	9 59.0	M						
21	...	46 13.39	5	10 0.2	M						
22	...	46 13.32	...	9 58.9	M						
440	<i>Stone 11115.</i>					447	<i>Stone 11191.</i>				
Oct. 17	...	20 47 5.44	...	118 22 0.0	R	Oct. 24	7.0	20 58 12.54	...	138 59 25.9	R
Nov. 5	...	47 5.59	8	21 58.4	M	25	7.0	58 12.45	...	59 27.3	R
						Nov. 5	...	58 12.42	...	59 25.0	M
						6	7.0	58 12.68	...	59 24.4	M
441	<i>Stone 11120.</i>					448	<i>23 Capricorni θ</i>				
Oct. 11	...	20 47 24.35	...	145 39 54.7	R	Sep. 3	...	20 59 22.04	...	107 41 48.9	M
18	...	47 24.38	...	39 54.4	R	12	...	59 22.04	...	41 49.0	M
19	...	47 24.40	...	39 55.9	R	13	...	59 22.22	5	41 50.0	M
24	...	47 24.48	...	39 54.6	R	14	...	59 22.13	...	41 51.7	M
25	...	47 24.39	...	39 57.5	R	15	...	59 22.08	...	41 50.6	M
						17	...	59 22.02	...	41 50.5	M
						19	...	59 22.15	...	41 50.1	M

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
Sep. 20	...	20	59	22.21	...	107	41	52.5	M	453 <i>Taylor 9889.</i>									
21	...		59	22.28	...		41	50.8	M	Sep. 26	6.5	21	14	52.22	...	119	39	40.4	M
22	...		59	22.10	...		41	50.4	M	Oct. 3	6.7		14	52.10	...		39	41.4	R
24	...		59	22.01	...		41	50.6	M	4	6.7		14	52.12	...		39	41.0	R
25	...		59	21.97	...		41	40.9	M	5	6.7		14	52.09	...		39	41.7	R
26	...		59	22.16	...		41	50.6	M	18	6.7		14	52.00	...		39	39.4	R
27	...		59	22.12	...		41	50.0	M	454 <i>33 Capricorni.</i>									
28	...		59	22.01	...		41	49.7	M	Sep. 28	...	21	17	31.26	...	111	20	54.8	M
29	...		59	22.13	...		41	51.5	M	29	...		17	31.28	...		20	49.7	M
Oct. 1	...		59	22.14	...		41	50.7	R	Oct. 1	...		17	31.17	...		20	52.2	R
9	...		59	22.11	...		41	48.3	R	11	...		17	31.26	...		20	49.8	R
10	...		59	22.15	...		41	40.4	R	19	...		17	31.45	...		20	50.1	R
11	...		59	22.11	...		41	40.5	R	455 <i>Stone 11367.</i>									
449 <i>Anon.</i>										Sep. 26	7.0	21	21	39.61	5	152	40	33.3	M
Oct. 18	8.0	21	0	13.05	...	150	59	40.0	R	27	...		21	39.54	5		40	34.1	M
450 <i>Stone 11227.</i>										Oct. 18	6.7		21	39.51	...		40	33.8	R
Oct. 4	6.7	21	1	58.59	...	134	40	54.3	R	19	6.7		21	39.71	...		40	34.4	R
5	6.7		1	58.60	...		40	54.4	R	20	6.7		21	39.46	...		40	34.3	M
20	6.7		1	58.60	...		40	55.1	M	456 <i>R. P. L. 149.</i>									
22	6.7		1	58.88	...		40	56.8	R	Sep. 4	...	21	22	43.22	3	3	26	57.1	M
23	6.7		1	58.78	...		40	55.3	R	14	...		22	45.06	2		26	56.4	M
451 <i>Taylor 9809.</i>										457 <i>Stone 11390.</i>									
Sep. 26	...	21	5	33.56	...	129	54	2.8	M	Sep. 28	6.0	21	25	48.17	...	135	21	56.3	M
27	...		5	33.58	...		54	2.3	M	29	6.0		25	48.20	...		21	54.1	M
29	...		5	33.77	...		54	1.8	M	Oct. 4	6.0		25	48.35	...		21	51.8	R
Oct. 1	...		5	33.64	...		54	1.9	R	5	6.0		25	48.33	...		21	52.9	R
9	...		5	33.70	...		54	1.0	R	6	6.0		25	48.32	...		21	54.3	R
452 <i>Taylor 9843.</i>										458 <i>Stone 11403.</i>									
Sep. 28	6.5	21	9	53.87	...	139	12	11.4	M	Sep. 26	6.0	21	28	41.66	5	155	20	47.2	M
29	7.0		9	53.98	...		12	10.7	M	27	...		28	41.41	...		20	49.2	M
Oct. 4	6.7		9	53.99	...		12	9.7	R	Oct. 3	6.0		28	41.48	...		20	48.8	R
5	6.7		9	53.98	...		12	10.6	R	11	6.0		28	41.44	...		20	51.0	R
11	6.7		9	53.87	...		12	13.1	R	18	6.0		28	41.56	...		20	48.6	R

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h. m. s.				° ' "		h. m. s.				° ' "	
459 <i>Stone 11428.</i>						464 <i>Taylor 10109.</i>					
Sep. 28	...	21 32 8.66	...	134 12 14.9	M	Sep. 28	...	21 40 38.58	...	137 50 8.9	M
29	...	32 8.68	...	12 15.6	M	29	...	40 38.78	...	50 2.9	M
Oct. 1	...	32 8.71	4	12 16.0	R	Oct. 4	...	40 38.92	...	50 2.9	R
4	...	32 8.75	...	12 18.2	R	5	...	40 39.00	4	50 3.6	R
5	...	32 8.68	...	12 14.5	R	6	...	40 38.65	...	50 2.5	R
460 <i>Stone 11434.</i>						465 <i>Taylor 10164.</i>					
Sep. 10	...	21 32 25.98	...	133 39 20.6	M	Sep. 26	...	21 48 14.51	...	143 0 51.4	M
12	...	32 25.78	...	39 34.4	M	27	...	48 14.52	3	0 55.5	M
461 <i>Taylor 10073.</i>						Oct. 3	...	48 14.73	...	0 53.9	R
Sep. 26	...	21 36 6.32	...	146 0 23.3	M	4	...	48 14.66	...	0 53.9	R
27	...	36 6.38	...	0 24.2	M	5	...	48 14.60	...	0 54.3	R
Oct. 3	...	36 6.49	...	0 23.4	R	466 <i>Taylor 10172.</i>					
4	...	36 6.46	...	0 23.4	R	Sep. 28	...	21 49 19.97	...	127 48 27.3	M
5	...	36 6.44	...	0 24.4	R	29	...	49 20.04	...	48 28.4	M
462 <i>Stone 11470.</i>						Oct. 1	...	49 19.96	...	48 26.8	R
Sep. 10	...	21 37 46.88	5	128 58 38.2	M	6	...	49 19.88	4	48 26.1	R
17	...	37 46.29	...	58 37.8	M	9	...	49 19.93	...	48 26.2	R
22	...	37 46.44	...	58 34.9	M	467 <i>Stone 11555.</i>					
463 <i>8 Pegasi ε</i>						Oct. 11	6.7	21 51 15.86	...	134 37 4.9	R
Oct. 9	...	21 38 26.37	...	80 39 36.8	R	18	6.7	51 15.79	...	37 4.7	R
10	...	38 26.35	...	39 37.9	R	19	6.7	51 15.90	...	37 6.7	R
11	...	38 26.43	...	39 38.0	R	20	6.7	51 15.78	4	37 5.7	M
13	...	38 26.44	...	39 39.0	R	22	6.7	51 16.02	...	37 6.5	R
17	...	38 26.45	...	39 39.0	R	468 <i>Anon.</i>					
18	...	38 26.39	...	39 37.9	R	Sep. 12	...	21 52 5.66	5	132 36 2.7	M
19	...	38 26.45	...	39 38.6	R	15	8.0	52 5.39	...	36 1.9	M
20	...	38 26.27	...	39 38.1	M	17	8.5	52 5.54	...	36 2.4	M
22	...	38 26.38	...	39 38.6	R	469 <i>Taylor 10192.</i>					
23	...	38 26.40	...	39 38.1	R	Oct. 3	...	21 52 13.17	...	128 57 10.7	R
24	...	38 26.39	...	39 38.3	R	23	...	52 13.45	...	57 11.9	R
25	...	38 26.39	...	39 36.5	R	24	...	52 13.35	...	57 12.2	R
Nov. 5	...	38 26.35	...	39 40.4	M	25	...	52 13.28	...	57 13.3	R
6	...	38 26.43	...	39 37.9	R	Nov. 6	...	52 13.18	...	57 12.1	R
7	...	38 26.34	...	39 38.3	M						
9	...	38 26.26	...	39 38.7	M						
10	...	38 26.35	...	39 40.8	M						
12	...	38 26.29	...	39 40.6	M						
14	...	38 26.25	...	39 40.2	M						
15	...	38 26.18	...	39 38.1	M						

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.			No. of Wires.	Mean Polar Distance 1883. ° ' "			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1883. h. m. s.			No. of Wires.	Mean Polar Distance 1883. ° ' "			Observer.
470 <i>Stone 11574.</i>										474 <i>Stone 11610.</i>									
Sep. 20	6.0	21	53	59.64	...	127	6	58.2	M	Sep. 20	...	22	0	9.13	...	120	11	11.6	M
Oct. 4	6.7		53	59.58	...		6	55.6	R	Oct. 4	...		0	8.94	...		11	10.1	R
5	6.7		53	59.52	...		6	56.2	R	6	...		0	9.14	...		11	9.6	R
6	6.7		53	59.55	4		6	55.9	R	9	...		0	9.01	5		11	9.2	R
9	6.7		53	59.40	...		6	56.8	R	11	...		0	9.08	...		11	10.8	R
471 <i>Taylor 10232.</i>										475 <i>43 Aquarii θ</i>									
Sep. 26	6.0	21	57	57.35	...	117	23	18.9	M	Oct. 11	...	22	10	39.49	...	98	21	55.9	R
28	6.0		57	57.36	...		23	19.3	M	13	...		10	39.43	...		21	56.1	R
Oct. 1	6.0		57	57.23	...		23	18.4	R	17	...		10	39.44	...		21	56.1	R
3	6.0		57	57.20	...		23	17.2	R	18	...		10	39.47	...		21	55.4	R
5	6.0		57	57.23	...		23	16.2	R	19	...		10	39.47	...		21	55.9	R
13	6.0		57	57.42	...		23	18.6	R	20	...		10	39.52	...		21	57.0	M
472 <i>Stone 11601.</i>										22	...		10	39.52	...		21	56.3	R
Sep. 12	...	21	58	48.92	6	134	31	59.3	M	23	...		10	39.44	...		21	55.1	R
15	7.0		58	48.82	...		31	58.6	M	24	...		10	39.48	...		21	54.4	R
473 <i>34 Aquarii α</i>										25	...		10	39.52	...		21	57.1	R
Oct. 18	...	21	59	46.37	...	90	53	15.2	R	Nov. 5	...		10	39.57	...		21	56.7	M
19	...		59	46.33	...		53	16.6	R	6	...		10	39.45	...		21	55.0	R
20	...		59	46.31	...		53	16.3	M	7	...		10	39.50	...		21	56.5	M
22	...		59	46.33	...		53	16.4	R	9	...		10	39.62	...		21	55.3	M
23	...		59	46.42	...		53	14.3	R	10	...		10	39.45	...		21	57.8	M
24	...		59	46.34	...		53	15.7	R	12	...		10	39.58	...		21	59.6	M
25	...		59	46.35	...		53	16.8	R	13	...		10	39.53	...		21	58.0	M
Nov. 5	...		59	46.32	...		53	16.9	M	14	...		10	39.46	...		21	57.0	M
6	...		59	46.37	...		53	15.6	R	15	...		10	39.51	...		21	56.6	M
7	...		59	46.41	...		53	16.3	M	16	...		10	39.46	...		21	56.9	M
9	...		59	46.36	...		53	15.7	M	20	...		10	39.65	...		21	54.5	M
10	...		59	46.44	...		53	18.6	M	21	...		10	39.45	...		21	56.0	M
12	...		59	46.45	...		53	17.4	M	23	...		10	39.51	...		21	56.2	M
13	...		59	46.35	...		53	18.9	M	476 <i>48 Aquarii γ</i>									
14	...		59	46.56	...		53	17.4	M	Sep. 26	...	22	15	36.73	...	91	58	35.0	M
15	...		59	46.47	...		53	17.1	M	27	...		15	36.70	...		58	36.3	M
16	...		59	46.45	...		53	18.8	M	28	...		15	36.83	...		58	34.9	M
20	...		59	46.39	...		53	17.6	M	29	...		15	36.59	...		58	35.5	M
21	...		59	46.50	...		53	18.3	M	Oct. 3	...		15	36.73	...		58	33.2	R
23	...		59	46.50	...		53	19.1	M	4	...		15	36.72	...		58	33.5	R
26	...		59	46.39	...		53	18.6	M	5	...		15	36.73	...		58	33.2	R
										6	...		15	36.70	...		58	34.1	R
										8	...		15	36.68	...		58	33.9	R
										9	...		15	36.72	...		58	33.7	R

Separate Results of Madras Meridian Circle Observations in 1883.

Number and Date.	Magnitude.	Mean Right Ascension 1888.			No. of Wires.	Mean Polar Distance 1888.			Observer.	
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>o.</i>	<i>'</i>	<i>"</i>		
477 73 Aquarii λ										
Sep. 24	...	22	46	30.40	...	98	12	7.8	M	
25	...		46	30.66	...		12	5.8	M	
Oct. 9	...		46	30.51	...		12	6.3	R	
10	...		46	30.50	...		12	6.3	R	
13	...		46	30.49	...		12	5.3	R	
17	...		46	30.47	...		12	6.4	R	
18	...		46	30.49	...		12	6.9	R	
19	...		46	30.47	...		12	7.8	R	
20	...		46	30.03	...		12	7.5	M	
Nov. 26	...		46	30.51	...		12	10.0	M	
29	...		46	30.47	...		12	4.0	M	
30	...		46	30.47	...		12	7.7	M	
Dec. 4	...		46	30.43	...		12	6.3	R	
5	...		46	30.43	...		12	6.0	R	
6	...		46	30.37	...		12	5.8	R	
478 54 Pegasi α, Markab.										
Oct. 22	...	22	58	56.01	...	75	25	26.0	R	
23	...		58	55.95	...		25	26.5	R	
24	...		58	55.97	...		25	26.9	R	
25	...		58	55.94	...		25	27.0	R	
Nov. 13	...		58	55.84	...		25	29.6	M	
14	...		58	55.90	...		25	29.1	M	
15	...		58	55.03	...		25	28.1	M	
16	...		58	55.85	...		25	31.2	M	
479 6 Piscium γ										
Nov. 20	...	22	58	55.89	...		75	25	27.2	M
21	...		58	55.85	...			25	26.4	M
23	...		58	55.83	...			25	29.3	M
480 R. P. L. 158.										
Oct. 18	...	23	27	47.02	3	3	20	17.0	R	
19	...		27	49.73	3		20	16.6	R	
22	...		27	50.18	3		20	10.6	R	
23	...		27	49.90	3		20	15.8	R	
24	...		27	49.56	3		20	18.0	R	
25	...		27	40.64	3		20	18.0	R	
Nov. 9	...		27	50.12	3		20	16.8	M	
12	...		27	51.09	3		20	15.5	M	
13	...		27	50.42	3		20	17.0	M	
14	...		27	49.10	3		20	17.6	M	

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1883

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
1	Stone 8	7.0	4	0	1	22.50	116	0	13.7	5	0.89
2	6 Ceti	4.9	...	0	5	18.41	106	6	37.5	5	0.91
3	Stone 63	6.3	...	0	7	48.44	116	56	12.0	5	0.90
4	Taylor 37	5.9	...	0	10	13.68	122	5	44.5	5	0.91
5	8 Ceti	3.6	...	0	13	27.81	99	28	20.0	7	0.96
6	Stone 109	7.1	5	0	14	18.77	126	33	10.4	5	0.89
7	Taylor 78	6.8	5	0	18	31.00	92	52	0.0	5	0.91
8	Stone 158	6.5	...	0	21	22.79	116	11	41.0	5	0.90
9	Taylor 101	5.9	...	0	22	40.15	130	33	44.6	5	0.93
10	Taylor 115	5.2	...	0	24	31.68	114	26	7.7	5	0.88
11	Stone 237	7.0	4	0	32	53.40	136	32	40.6	5	0.88
12	Stone 240	7.0	5	0	33	16.91	133	56	19.4	5	0.96
13	Taylor 181	6.4	...	0	34	16.83	135	26	24.7	1	0.84
14	Taylor 215	6.4	...	0	39	25.06	133	18	52.2	5	0.88
15	W. B. E. O. 658	9.1	1	0	39	36.26	88	55	54.4	1	0.92
16	63 Piscium δ	4.6	...	0	42	36.69	83	3	6.6	7	0.94
17	... ..	9.0	1	0	42	38.72	89	0	20.4	1	0.91
18	... ..	9.0	1	0	43	53.51	88	58	5.9	1	0.93
19	Taylor 252	6.7	...	0	44	34.42	134	1	58.7	5	0.95
20	Stone 342	5.8	...	0	46	55.90	114	38	37.3	5	0.88
21	Stone 365	6.3	...	0	50	14.91	118	24	34.4	5	0.90
22	R. P. L. 10	6.6	...	0	51	27.96	1	36	16.7	2	0.86
23	... ..	7.0	1	0	52	8.16	131	53	18.5	1	0.86
24	2 Ursæ Minoris	4.5	...	0	52	57.38	4	22	15.0	1	0.01
25	Stone 392	5.6	...	0	55	50.20	129	32	56.5	5	0.88
26	R. P. L. 14	6.2	...	0	56	36.82	3	28	41.6	1	0.99
27	Stone 407	5.9	...	0	57	32.66	137	1	37.4	5	0.90
28	30 Ceti	5.8	...	1	1	53.10	100	24	42.7	5	0.89
29	43 Andromedæ β	2.2	...	1	3	10.92	54	59	58.7	2	0.01
30	Taylor 391	6.6	...	1	6	51.47	121	25	19.1	5	0.89
31	... ..	8.5	...	1	9	4.03	145	51	44.7	1	0.86
32	... ..	9.0	...	1	10	7.75	124	38	59.5	2	0.00
33	Stone 489	6.7	...	1	10	57.78	132	37	39.3	5	0.96
34	... ..	8.5	4	1	13	7.73	130	43	13.8	4	0.71
35	Taylor 428	6.9	...	1	13	33.16	133	56	58.4	5	0.90

15—17—18.—Comparison stars for Mars in 1862.

22.—Groombridge 144.

26.—Groombridge 195.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
1	Stone 8 ...	+ 3.0684	- 0.0126	...	- 20.054	+ 0.011	...	...
2	6 Ceti ...	+ 3.0634	- 0.0064	- 0.008	- 20.048	+ 0.010	+ 0.26	3222
3	Stone 63 ...	+ 3.0402	- 0.0127	...	- 20.042	+ 0.023	...	...
4	Taylor 37 ...	+ 3.0350	- 0.0158	...	- 20.034	+ 0.027	...	...
5	8 Ceti ...	+ 3.0593	- 0.0023	- 0.003	- 20.019	+ 0.034	+ 0.03	14
6	Stone 109 ...	+ 3.0105	- 0.0186	...	- 20.015	+ 0.035	...	...
7	Taylor 78 ...	+ 3.0660	+ 0.0014	...	- 19.980	+ 0.044	...	...
8	Stone 158 ...	+ 3.0110	- 0.0111	...	- 19.960	+ 0.040	...	...
9	Taylor 101 ...	+ 2.9594	- 0.0205	...	- 19.956	+ 0.051	...	...
10	Taylor 115 ...	+ 3.0074	- 0.0097	...	- 19.939	+ 0.055	...	...
11	Stone 237 ...	+ 2.8705	- 0.0233	...	- 19.848	+ 0.060	...	...
12	Stone 240 ...	+ 2.8859	- 0.0213	...	- 19.843	+ 0.060	...	...
13	Taylor 181 ...	+ 2.8700	- 0.0223	- 0.002	- 19.829	+ 0.071	+ 0.05	Stone.
14	Taylor 215 ...	+ 2.8564	- 0.0198	...	- 19.757	+ 0.079	...	...
15	W. B. E. O. 658 ...	+ 3.0767	+ 0.0046	...	- 19.753	+ 0.084	...	...
16	63 Piscium δ ...	+ 3.1024	+ 0.0079	+ 0.004	- 19.709	+ 0.091	+ 0.04	85
17	... ..	+ 3.0767	+ 0.0047	...	- 19.706	+ 0.089	...	...
18	... ..	+ 3.0771	+ 0.0048	...	- 19.687	+ 0.092	...	...
19	Taylor 252 ...	+ 2.8225	- 0.0194	...	- 19.675	+ 0.087	...	...
20	Stone 342 ...	+ 2.9477	- 0.0078	...	- 19.633	+ 0.095	...	...
21	Stone 365 ...	+ 2.9150	- 0.0095	...	- 19.574	+ 0.100	...	...
22	R. P. L. 10 ...	+ 3.6992	+ 8.2321	+ 0.153	- 19.550	+ 0.453	+ 0.03	65
23	... ..	+ 2.8019	- 0.0167	...	- 19.537	+ 0.099	...	...
24	2 Ursæ Minoris ...	+ 7.0783	+ 1.3756	+ 0.068	- 19.521	+ 0.244	+ 0.01	92
25	Stone 392 ...	+ 2.8060	- 0.0148	...	- 19.462	+ 0.106	...	...
26	R. P. L. 14 ...	+ 8.1505	+ 2.1474	+ 0.054	- 19.445	+ 0.308	+ 0.02	95
27	Stone 407 ...	+ 2.7158	- 0.0187	...	- 19.425	+ 0.106	...	...
28	30 Ceti ...	+ 3.0068	+ 0.0001	+ 0.009	- 19.327	+ 0.124	- 0.01	135
29	43 Andromedæ β ...	+ 3.3272	+ 0.0286	+ 0.014	- 19.297	+ 0.139	+ 0.08	140
30	Taylor 391 ...	+ 2.8375	- 0.0092	...	- 19.206	+ 0.126	...	...
31	... ..	+ 2.4871	- 0.0203	...	- 19.150	+ 0.115	...	...
32	... ..	+ 2.7940	- 0.0105	...	- 19.123	+ 0.130	...	...
33	Stone 489 ...	+ 2.6974	- 0.0141	...	- 19.100	+ 0.127	...	...
34	... ..	+ 2.7114	- 0.0128	...	- 19.042	+ 0.131	...	...
35	Taylor 428 ...	+ 2.0659	- 0.0142	...	- 19.030	+ 0.130	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	R. P. L. 18	7.9	...	1	13	38.26	2	2	52.1	1	0.99
37	1 Urs. Min. α (<i>Polaris</i>) ...	2.2	...	1	15	50.44	1	18	54.4	14	0.30
38	45 Ceti θ^1	3.8	...	1	18	10.40	98	47	15.8	2	0.00
39	93 Piscium ρ	5.2	...	1	19	57.00	71	26	^{3.3} 7.9	1	0.96
40	... ..	9.7	2	1	20	7.23	122	56	18.7	2	0.93
41	Taylor 487	6.2	...	1	24	51.91	116	48	46.4	5	0.88
42	99 Piscium η	3.7	...	1	25	13.35	75	15	27.9	4	0.99
43	Stone 596	7.8	...	1	25	30.56	128	23	30.5	5	0.55
44	Taylor 524	6.3	...	1	29	48.40	147	36	1.8	5	0.91
45	α Eridani (<i>Achernar</i>) ...	1.0	...	1	33	21.53	147	49	54.4	1	0.90
46	... ..	7.0	4	1	33	27.39	138	31	50.6	4	0.00
47	106 Piscium ν	4.7	...	1	35	20.52	85	6	18.0	1	0.99
48	... ..	8.0	4	1	36	20.07	140	14	24.8	4	0.71
49	110 Piscium σ	4.4	...	1	39	12.89	81	25	55.1	10	0.91
50	Taylor 578	5.5	...	1	40	6.81	96	19	6.4	5	0.91
51	Stone 704	8.0	...	1	41	40.12	133	54	16.9	5	0.01
52	Taylor 616	6.1	...	1	46	22.07	140	47	8.4	5	0.89
53	6 Arietis β	2.8	...	1	48	10.61	69	45	51.7	13	0.95
54	Taylor 626	6.3	...	1	48	20.94	129	10	21.1	5	0.01
55	... ..	8.0	3	1	53	53.44	127	35	3.7	5	0.19
56	Stone 812	6.0	...	1	57	20.50	105	52	13.7	4	0.88
57	Stone 824	7.0	...	1	59	40.47	134	4	5.9	3	0.01
58	13 Arietis α	2.0	...	2	0	34.70	67	5	29.0	17	0.26
59	Stone 834	7.3	...	2	1	18.98	142	33	4.5	5	0.92
60	Stone 850	7.5	...	2	3	48.47	126	22	45.3	4	0.92
61	Stone 870	7.5	...	2	5	46.73	128	55	5.5	5	0.91
62	... ..	7.7	2	2	8	5.55	131	48	51.3	2	0.00
63	... ..	8.5	4	2	9	23.64	124	51	43.1	5	0.36
64	Taylor 750	6.1	...	2	9	47.80	131	42	43.9	1	0.01
65	67 Ceti	5.5	...	2	11	8.75	96	57	43.6	3	0.93
66	Stone 911	7.1	...	2	11	58.76	143	25	54.4	5	0.92
67	... ..	7.0	2	2	14	28.61	132	33	30.8	2	0.01
68	Stone 935	7.3	...	2	16	3.40	140	50	21.2	5	0.94
69	... ..	8.0	1	2	18	16.50	150	57	53.2	1	0.01
70	Stone 955	7.3	...	2	18	48.67	150	17	34.1	5	0.92

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
36	R. P. L. 18 ...	+ 14·8806	+ 6·8872	...	- 19·023	+ 0·693	...	...
37	1 Ursæ Minoris α ...	+ 21·9951	+ 16·3900	+ 0·108	- 18·966	+ 1·050	+ 0·00	102
38	45 Ceti θ ¹ ...	+ 3·0032	+ 0·0018	- 0·007	- 18·899	+ 0·154	+ 0·20	184
39	93 Piscium ρ ...	+ 3·2259	+ 0·0163	- 0·006	- 18·846	+ 0·168	- 0·03	185
40	... ..	+ 2·7757	- 0·0086	...	- 18·841	+ 0·146	...	...
41	Taylor 487 ...	+ 2·8279	- 0·0055	...	- 18·695	+ 0·157	...	...
42	99 Piscium η ...	+ 3·2001	+ 0·0141	- 0·000	- 18·683	+ 0·177	+ 0·00	203
43	Stone 596 ...	+ 2·6862	- 0·0100	...	- 18·674	+ 0·150	...	...
44	Taylor 524 ...	+ 2·2678	- 0·0140	...	- 18·533	+ 0·134	...	...
45	α Eridani ...	+ 2·2303	- 0·0128	+ 0·008	- 18·413	+ 0·137	+ 0·07	Stone
46	... ..	+ 2·4724	- 0·0120	...	- 18·410	+ 0·151	...	...
47	106 Piscium ν ...	+ 3·1186	+ 0·0091	- 0·003	- 18·344	+ 0·191	- 0·01	223
48	... ..	+ 2·1558	- 0·0114	...	- 18·308	+ 0·136	...	...
49	110 Piscium ο ...	+ 3·1569	+ 0·0111	+ 0·003	- 18·204	+ 0·200	- 0·06	232
50	Taylor 578 ...	+ 3·0097	+ 0·0039	...	- 18·171	+ 0·193	...	...
51	Stone 704 ...	+ 2·5195	- 0·0095	...	- 18·109	+ 0·165	...	...
52	Taylor 616 ...	+ 2·3390	- 0·0098	...	- 17·932	+ 0·160	...	...
53	6 Arietis β ...	+ 3·2965	+ 0·0183	+ 0·005	- 17·861	+ 0·226	+ 0·10	252
54	Taylor 626 ...	+ 2·5764	- 0·0073	...	- 17·855	+ 0·179	...	...
55	... ..	+ 2·5819	- 0·0062	...	- 17·628	+ 0·187	...	...
56	Stone 812 ...	+ 2·8862	+ 0·0010	...	- 17·432	+ 0·214	...	...
57	Stone 824 ...	+ 2·4269	- 0·0067	...	- 17·381	+ 0·183	...	...
58	13 Arietis α ...	+ 3·3561	+ 0·0203	+ 0·013	- 17·342	+ 0·252	+ 0·13	287
59	Stone 834 ...	+ 2·1910	- 0·0065	...	- 17·310	+ 0·168	...	...
60	Stone 850 ...	+ 2·5658	- 0·0049	...	- 17·198	+ 0·199	...	...
61	Stone 870 ...	+ 2·5092	- 0·0051	...	- 17·108	+ 0·198	...	...
62	... ..	+ 2·4383	- 0·0053	...	- 17·002	+ 0·195	...	...
63	... ..	+ 2·5741	- 0·0040	...	- 16·943	+ 0·207	...	...
64	Taylor 750 ...	+ 2·4330	- 0·0051	...	- 16·922	+ 0·197	...	...
65	67 Ceti ...	+ 2·9840	+ 0·0049	+ 0·004	- 16·859	+ 0·242	+ 0·11	321
66	Stone 911 ...	+ 2·0909	- 0·0040	...	- 16·819	+ 0·173	...	...
67	... ..	+ 2·3926	- 0·0046	...	- 16·699	+ 0·200	...	...
68	Stone 935 ...	+ 2·1541	- 0·0040	...	- 16·622	+ 0·182	...	...
69	... ..	+ 1·7058	+ 0·0037	...	- 16·513	+ 0·148	...	...
70	Stone 955 ...	+ 1·7383	+ 0·0029	...	- 16·437	+ 0·151	...	...

Mean Positions of Stars for 1883, January 1st.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
71	... ..	7.5	2	2	19	52.27	134	51	27.9	2	0.00
72	73 Ceti ζ ²	4.4	...	2	21	56.29	82	3	52.4	1	1.00
73	... ..	7.0	3	2	22	8.49	131	53	37.3	4	0.49
74	... ..	8.0	...	2	23	18.01	135	34	15.8	1	0.01
75	Stone 994	7.3	...	2	24	31.01	126	27	49.7	1	0.00
76	Stone 1000	6.4	...	2	25	20.71	154.	49	24.1	5	0.92
77	Lacaille 782	6.7	...	2	26	46.94	148	19	46.3	1	0.01
78	R. P. L. 26	8.0	...	2	27	31.12	3	27	48.7	2	0.87
79	... ..	7.7	3	2	28	16.63	149	23	20.7	3	0.01
80	77 Ceti	5.6	...	2	28	56.16	98	22	16.1	5	0.94
81	... ..	8.0	...	2	33	12.16	137	9	14.5	5	0.05
82	86 Ceti γ ³	3.6	...	2	37	14.27	87	15	29.0	2	0.99
83	Taylor 916	6.1	...	2	37	27.05	128	53	1.8	5	0.01
84	... ..	7.7	1	2	37	31.16	136	6	9.6	1	0.00
85	Taylor 926	7.5	...	2	39	2.37	115	59	32.7	5	0.92
86	Stone 1144	7.0	...	2	42	15.04	131	27	2.0	5	0.97
87	... ..	7.7	1	2	42	49.02	140	53	8.7	1	0.00
88	... ..	8.0	...	2	43	47.79	138	24	5.5	5	0.05
89	43 Arietis σ	5.5	...	2	45	1.96	75	24	2.0	7	0.96
90	... ..	8.5	...	2	46	1.22	132	42	37.4	5	0.03
91	Stone 1170	7.1	...	2	46	38.45	131	26	44.8	5	0.94
92	... ..	8.5	...	2	47	2.31	133	18	50.8	2	0.01
93	Stone 1192	8.0	...	2	49	36.37	135	5	2.3	5	0.97
94	Stone 1208	6.6	...	2	50	59.00	146	21	23.5	4	0.05
95	Stone 1212	8.0	...	2	51	42.14	141	44	2.3	4	0.96
96	Stone 1223	7.0	...	2	52	28.65	154	28	45.5	1	0.99
97	Taylor 1024	7.4	...	2	55	47.17	132	20	18.5	3	0.01
98	Taylor 1027	6.1	...	2	56	34.74	118	32	26.1	5	0.94
99	... ..	8.5	...	2	57	42.15	132	17	54.2	4	0.05
100	Stone 1263	6.3	...	2	58	55.64	137	26	2.9	5	0.97
101	Stone 1264	8.0	...	2	59	13.87	134	30	42.2	4	0.02
102	Taylor 1042	6.9	...	2	59	43.54	134	21	21.4	5	0.02
103	R. P. L. 33	5.8	...	3	4	48.88	5	30	24.5	2	0.95
104	57 Arietis δ	4.5	...	3	4	56.32	70	42	59.3	7	0.96
105	Stone 1342	7.3	...	3	9	50.79	130	41	31.7	2	0.00

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
71	... ..	+ 2·3100	- 0·0040	...	- 16·434	+ 0·200	...	...
72	73 Ceti ζ^3 ...	+ 3·1805	+ 0·0117	+ 0·001	- 16·330	+ 0·276	+ 0·00	347
73	... ..	+ 2·3753	- 0·0038	...	- 16·320	+ 0·208	...	...
74	... ..	+ 2·2740	- 0·0035	...	- 16·260	+ 0·201	...	...
75	Stone 994 ...	+ 2·4899	- 0·0028	...	- 16·197	+ 0·222	...	...
76	Stone 1000 ...	+ 1·3873	+ 0·0138	...	- 16·155	+ 0·127	...	...
77	Lacaille 782 ...	+ 1·7773	+ 0·0026	...	- 16·079	+ 0·161	...	...
78	R. P. L. 26 ...	+ 16·3288	+ 3·7976	...	- 16·038	+ 1·436	...	...
79	... ..	+ 1·7104	+ 0·0047	...	- 16·002	+ 0·157	...	...
80	77 Ceti ...	+ 2·9533	+ 0·0051	...	- 15·966	+ 0·267	...	...
81	... ..	+ 2·1790	- 0·0020	...	- 15·739	+ 0·204	...	...
82	86 Ceti γ^3 ...	+ 3·1130	+ 0·0094	- 0·011	- 15·516	+ 0·294	+ 0·16	383
83	Taylor 916 ...	+ 2·3886	- 0·0018	...	- 15·505	+ 0·228	...	...
84	... ..	+ 2·1908	- 0·0014	...	- 15·500	+ 0·209	...	...
85	Taylor 926 ...	+ 2·0554	+ 0·0003	...	- 15·416	+ 0·254	...	...
86	Stone 1144 ...	+ 2·3045	- 0·0015	...	- 15·234	+ 0·225	...	...
87	... ..	+ 1·5691	+ 0·0081	...	- 15·203	+ 0·156	...	...
88	... ..	+ 2·0855	- 0·0004	...	- 15·147	+ 0·206	...	...
89	43 Arietis σ ...	+ 3·3020	+ 0·0150	- 0·000	- 15·075	+ 0·323	+ 0·04	400
90	... ..	+ 2·2545	- 0·0009	...	- 15·018	+ 0·224	...	...
91	Stone 1170 ...	+ 2·2876	- 0·0010	...	- 14·983	+ 0·227	...	...
92	... ..	+ 2·2328	- 0·0003	...	- 14·959	+ 0·223	...	...
93	Stone 1192 ...	+ 2·1682	- 0·0004	...	- 14·809	+ 0·219	...	...
94	Stone 1208 ...	+ 1·7087	+ 0·0052	...	- 14·727	+ 0·175	...	...
95	Stone 1212 ...	+ 1·9181	+ 0·0020	...	- 14·684	+ 0·196	...	...
96	Stone 1223 ...	+ 1·1582	+ 0·0206	...	- 14·638	+ 0·121	...	...
97	Taylor 1024 ...	+ 2·2270	0·0000	...	- 14·438	+ 0·233	...	...
98	Taylor 1027 ...	+ 2·5659	+ 0·0007	...	- 14·391	+ 0·266	...	...
99	... ..	+ 2·2204	+ 0·0001	...	- 14·322	+ 0·232	...	...
100	Stone 1263 ...	+ 2·0481	+ 0·0011	...	- 14·247	+ 0·217	...	...
101	Stone 1264 ...	+ 2·1461	+ 0·0005	...	- 14·228	+ 0·226	...	...
102	Taylor 1042 ...	+ 2·1491	+ 0·0005	...	- 14·198	+ 0·227	...	...
103	R. P. L. 33 ...	+ 13·0815	+ 1·6154	+ 0·045	- 13·879	+ 1·383	+ 0·12	402
104	57 Arietis δ ...	+ 3·4102	+ 0·0171	+ 0·010	- 13·871	+ 0·364	- 0·01	446
105	Stone 1342 ...	+ 2·2253	+ 0·0010	...	- 13·558	+ 0·245	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>					
106	... ..	9.0	...	3	12	17.23	126	8	37.8	3	0.01
107	33 Persei α	1.9	...	3	15	58.29	40	33	23.5	3	0.05
108	1 Tauri σ , Var. 5	Var.	...	3	18	31.06	81	23	0.7	6	0.37
109	... ..	8.0	3	3	18	35.65	134	32	55.3	5	0.03
110	Stone 1414	7.2	...	3	19	17.12	130	29	20.3	3	0.00
111	... ..	7.7	2	3	26	30.25	135	8	2.2	3	0.04
112	18 Eridani ϵ	3.7	...	3	27	25.15	99	51	20.0	6	0.03
113	R. P. L. 34	5.9	...	3	28	19.44	3	43	29.0	4	0.50
114	Stone 1522	7.8	...	3	34	39.71	136	37	22.0	2	0.00
115	Stone 1526	8.0	...	3	35	9.27	126	19	10.3	5	0.01
116	25 Tauri η (<i>Alcyone</i>)	3.0	...	3	40	31.81	66	15	27.8	4	0.25
117	... ..	8.8	2	3	44	17.92	136	26	47.0	4	0.04
118	... ..	9.0	4	3	49	49.40	126	22	56.1	5	0.02
119	37 Tauri A ¹	4.4	...	3	57	46.71	68	14	20.7	16	0.05
120	R. P. L. 35	6.7	...	4	0	13.55	4	45	17.8	2	0.00
121	38 Eridani σ ¹	4.1	...	4	6	9.25	97	8	35.3	1	0.03
122	α Reticuli	3.3	...	4	12	55.28	152	46	1.2	5	0.11
123	54 Tauri γ	3.9	...	4	13	8.11	74	39	22.0	13	0.03
124	Taylor 1553	8.3	...	4	20	49.49	134	17	23.0	4	0.03
125	74 Tauri ϵ	3.7	...	4	21	47.09	71	4	40.4	2	0.02
126	Taylor 1595	6.9	...	4	27	0.28	131	25	33.3	4	0.01
127	87 Tauri α (<i>Aldebaran</i>)	1.0	...	4	29	12.46	73	43	37.5	8	0.09
128	α Doradus	3.1	...	4	31	28.21	145	17	13.2	5	0.11
129	Stone 1991	7.3	...	4	32	31.02	135	22	30.1	4	0.01
130	... ..	7.0	5	4	45	26.49	131	47	22.9	5	0.08
131	3 Aurigæ ι	2.7	...	4	49	22.43	57	1	15.9	9	0.08
132	R. P. L. 37	7.0	...	4	50	27.71	4	11	49.5	12	0.09
133	7 Aurigæ ϵ , Var. 1	Var.	...	4	53	34.38	46	21	3.7	5	0.11
134	Stone 2191	8.0	...	4	56	19.73	131	13	19.8	5	0.06
135	R. P. L. 39	7.0	...	5	4	14.00	4	26	3.0	17	0.22
136	13 Aurigæ α (<i>Capella</i>)	0.2	...	5	8	2.65	44	7	19.6	9	0.09
137	19 Orionis β (<i>Rigel</i>)	0.3	...	5	8	54.85	98	20	16.2	8	0.10
138	112 Tauri β	1.9	...	5	18	53.79	61	29	34.9	4	0.04
139	R. P. L. 40	6.0	...	5	24	37.77	4	51	57.9	6	0.21
140	34 Orionis δ , Var. 1	Var.	...	5	26	1.88	90	23	12.9	1	0.05

113.—Groombridge 642.
139.—Groombridge 944.

120.—Groombridge 750.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
106	... ..	+ 0.3704	+ 0.0009	...	- 13.400	+ 0.260	...	...
107	33 Persæ α ...	+ 4.2512	+ 0.0483	+ 0.002	- 13.158	+ 0.472	+ 0.03	464
108	1 Tauri ο ...	+ 3.2267	+ 0.0115	- 0.005	- 12.989	+ 0.364	+ 0.07	477
109	... ..	+ 2.0695	+ 0.0021	...	- 12.984	+ 0.236	...	...
110	Stone 1414 ...	+ 2.2002	+ 0.0016	...	- 12.938	+ 0.251	...	...
111	... ..	+ 2.0193	+ 0.0028	...	- 12.440	+ 0.236	...	...
112	18 Eridani ε ...	+ 2.8897	+ 0.0055	- 0.068	- 12.386	+ 0.336	- 0.01	493
113	R. P. L. 34 ...	+ 19.2728	+ 3.2566	+ 0.136	- 12.324	+ 2.222	+ 0.06	Gr
114	Stone 1522 ...	+ 1.9325	+ 0.0038	...	- 11.881	+ 0.232	...	...
115	Stone 1526 ...	+ 2.2795	+ 0.0022	...	- 11.847	+ 0.273	...	...
116	25 Tauri η ...	+ 3.5548	+ 0.0177	- 0.000	- 11.465	+ 0.430	+ 0.04	521
117	... ..	+ 1.9053	+ 0.0042	...	- 11.192	+ 0.235	...	...
118	... ..	+ 2.2420	+ 0.0027	...	- 10.788	+ 0.280	...	...
119	37 Tauri A¹ ...	+ 3.5319	+ 0.0153	+ 0.005	- 10.195	+ 0.447	+ 0.06	554
120	R. P. L. 35 ...	+ 16.9992	+ 1.8057	+ 0.002	- 10.009	+ 2.152	- 0.02	750
121	38 Eridani ο¹ ...	+ 2.9250	+ 0.0058	- 0.001	- 9.557	+ 0.379	- 0.09	568
122	α Reticuli ...	+ 0.7520	+ 0.0216	+ 0.005	- 9.033	+ 0.102	- 0.07	Stone
123	54 Tauri γ ...	+ 3.4000	+ 0.0115	+ 0.007	- 9.015	+ 0.446	+ 0.03	583
124	Taylor 1553 ...	+ 1.8883	+ 0.0046	...	- 8.410	+ 0.254	...	...
125	74 Tauri ε ...	+ 3.4892	+ 0.0120	+ 0.007	- 8.334	+ 0.466	+ 0.03	609
126	Taylor 1595 ...	+ 1.9884	+ 0.0041	...	- 7.915	+ 0.269	...	...
127	87 Tauri α ...	+ 3.4323	+ 0.0105	+ 0.004	- 7.739	+ 0.404	+ 0.18	630
128	α Doradus ...	+ 1.2848	+ 0.0099	...	- 7.556	+ 0.176	...	...
129	Stone 1991 ...	+ 1.8153	+ 0.0048	...	- 7.470	+ 0.249	...	...
130	... ..	+ 1.9401	+ 0.0041	...	- 6.409	+ 0.271	...	...
131	3 Aurigæ ι ...	+ 3.8989	+ 0.0144	+ 0.001	- 6.082	+ 0.544	+ 0.00	677
132	R. P. L. 37 ...	+ 20.4576	+ 1.4980	...	- 5.991	+ 2.851	...	...
133	7 Aurigæ ε ...	+ 4.2945	+ 0.0197	- 0.002	- 5.731	+ 0.602	+ 0.01	690
134	Stone 2191 ...	+ 1.9460	+ 0.0039	...	- 5.500	+ 0.275	...	...
135	R. P. L. 39 ...	+ 19.8047	+ 1.1015	...	- 4.831	+ 2.805	...	...
136	13 Aurigæ α ...	+ 4.4156	+ 0.0173	+ 0.008	- 4.508	+ 0.629	+ 0.42	722
137	19 Orionis β ...	+ 2.8812	+ 0.0040	- 0.001	- 4.433	+ 0.412	- 0.01	736
138	112 Tauri β ...	+ 3.7869	+ 0.0082	+ 0.001	- 3.577	+ 0.545	+ 0.18	756
139	R. P. L. 40 ...	+ 18.5835	+ 0.5958	...	- 3.083	+ 2.680	...	...
140	34 Orionis δ ...	+ 3.0634	+ 0.0038	- 0.001	- 2.962	+ 0.443	+ 0.01	787

Mean Positions of Stars for 1888, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
141	11 Leporis α	2.7	...	5	27	34.23	107	54	25.7	2	0.07
142	R. P. L. 41	7.5	...	5	29	13.78	4	44	59.2	8	0.57
143	R. P. L. 42... ..	7.9	...	5	36	37.99	2	40	52.8	9	0.07
144	53 Orionis κ	2.2	...	5	42	12.45	99	42	46.3	4	0.07
145	33 Aurigæ δ	3.8	...	5	49	53.55	35	43	33.5	5	0.11
146	R. P. L. 43	6.6	...	6	0	28.21	3	14	15.4	9	0.31
147	7 Geminorum η	3.5	...	6	7	48.87	67	27	37.1	10	0.10
148	31 Geminor ξ	3.4	...	6	38	43.35	76	58	46.1	10	0.13
149	51 Cephei (<i>Hav.</i>)	5.3	...	6	45	17.33	2	46	26.2	10	0.12
150	... .. (2nd Star)...	9.5	4	6	48	35.47	70	33	38.0	4	0.11
151	W. B. N. VI. 1448	9.0	5	6	49	45.81	62	3	39.3	5	0.11
152	22 Canis Majoris	3.5	...	6	57	3.56	117	46	5.3	5	0.11
153	3 Canis Minoris β	3.1	...	7	20	43.35	81	28	31.9	10	0.12
154	77 Geminorum κ	1.1	...	7	37	22.89	65	19	21.3	5	0.15
155	W. B. E. VII. 1127	9.0	5	7	38	32.60	81	0	24.6	5	0.12
156	ξ Argûs	3.4	...	7	44	22.49	114	33	59.1	10	0.14
157	R. P. L. 43	7.4	...	7	46	44.85	3	58	3.8	5	0.61
158	Lalande 16364	8.0	5	8	15	22.48	76	0	18.2	5	0.10
159	R. P. L. 53	7.7	...	8	20	38.22	4	32	8.7	5	0.68
160	Lalande 16797	8.0	5	8	27	6.61	76	3	3.5	5	0.11
161	R. P. L. 55	7.5	...	8	31	31.92	5	40	55.7	3	0.77
162	43 Cancrî γ	4.8	...	8	36	30.77	68	6	42.3	10	0.14
163	R. P. L. 60	7.0	...	8	50	44.02	5	21	10.9	1	0.74
164	W. B. E. IX. 73	9.0	5	9	6	31.26	77	16	15.8	5	0.12
165	ι Argûs	2.5	...	9	13	57.46	148	47	6.6	10	0.21
166	Lalande 18405	8.0	5	9	14	35.46	77	32	44.0	5	0.13
167	W. B. E. IX. 270	9.0	5	9	14	55.42	77	15	40.3	5	0.14
168	κ Argûs	2.7	...	9	13	29.19	144	30	40.9	5	0.14
169	R. P. L. 62	8.1	...	9	21	24.45	2	21	32.2	2	0.70
170	Lalande 19559	7.0	5	9	53	48.60	109	47	50.9	5	0.14
171	Lalande 19846	8.0	5	10	5	40.85	107	3	30.1	5	0.14
172	33 Ursæ Majoris λ	3.6	...	10	10	1.86	46	30	6.0	1	0.15
173	W. B. E. X. 228	9.0	5	10	15	3.08	104	0	29.4	5	0.15
174	Lalande 20089	7.5	5	10	15	10.54	104	54	4.2	5	0.15
175	... ..	9.7	5	10	16	2.01	84	34	2.6	5	0.28

150.—Comparison star for Hestia in 1882.

151.—Comparison star for Sylvia in 1882.

155.—Comparison star for Camilla in 1882.

153—160—164—166—167—170—171—173—174.—Comparison stars for Comet 1882, A.

163.—Carrington 1286.

175.—Comparison star for Asia in 1883.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
141	11 Leporis α ...	+ 2.6446	+ 0.0029	- 0.001	- 2.828	+ 0.383	- 0.01	796
142	R. P. L. 41 ...	+ 19.0176	+ 0.5444	...	- 2.684	+ 2.750	...	...
143	R. P. L. 42 ...	+ 31.4697	+ 1.2560	...	- 2.041	+ 4.567	...	...
144	53 Orionis κ ...	+ 2.8141	+ 0.0027	- 0.002	- 1.555	+ 0.414	- 0.00	844
145	33 Aurigæ δ ...	+ 4.9293	+ 0.0061	+ 0.007	- 0.885	+ 0.718	+ 0.12	852
146	R. P. L. 43 ...	+ 26.7050	- 0.0260	...	+ 0.041	+ 3.896	...	...
147	7 Geminorum η ...	+ 3.6269	+ 0.0007	- 0.005	+ 0.682	+ 0.529	+ 0.00	909
148	31 Geminorum ξ ...	+ 3.3772	- 0.0017	- 0.009	+ 3.373	+ 0.485	+ 0.20	989
149	51 Cephei (<i>Hev.</i>) ...	+ 30.1274	- 2.2654	- 0.040	+ 3.937	+ 4.307	+ 0.05	Gr.
150	... (2nd Star) ...	+ 3.5336	- 0.0038	...	+ 4.220	+ 0.502	...	...
151	W. B. N. VI. 1448 ...	+ 3.7617	- 0.0060	...	+ 4.320	+ 0.535	...	...
152	22 Canis Majoris ...	+ 2.3001	+ 0.0013	- 0.002	+ 4.941	+ 0.336	+ 0.01	1027
153	3 Canis Minoris β ...	+ 3.2005	- 0.0041	- 0.004	+ 0.924	+ 0.444	+ 0.03	1079
154	77 Geminorum κ ...	+ 3.7274	- 0.0128	- 0.048	+ 8.329	+ 0.491	+ 0.05	1112
155	W. B. E. VII. 1127 ...	+ 3.2614	- 0.0053	...	+ 8.359	+ 0.429	...	...
156	ξ Argûs ...	+ 2.5235	+ 0.0008	- 0.001	+ 8.820	+ 0.327	- 0.02	1132
157	R. P. L. 48 ...	+ 20.2936	- 2.3725	...	+ 9.006	+ 2.640	...	...
158	Lalande 16364 ...	+ 3.3491	- 0.0091	...	+ 11.160	+ 0.401	...	...
159	R. P. L. 53 ...	+ 16.8502	- 2.1717	...	+ 11.548	+ 2.004	...	...
160	Lalande 16797 ...	+ 3.3383	- 0.0097	...	+ 12.007	+ 0.392	...	...
161	R. P. L. 55 ...	+ 13.6770	- 1.4659	...	+ 12.314	+ 1.569	...	...
162	43 Cancri γ ...	+ 3.4890	- 0.0143	- 0.009	+ 12.655	+ 0.390	+ 0.03	1230
163	R. P. L. 60 ...	+ 13.5005	- 1.7011	...	+ 13.595	+ 1.448	...	...
164	W. B. E. IX. 78 ...	+ 3.2798	- 0.0102	...	+ 14.578	+ 0.323	...	...
165	ι Argûs ...	+ 1.6102	- 0.0022	...	+ 15.017	+ 0.150	...	...
166	Lalande 18405 ...	+ 3.2674	- 0.0103	...	+ 15.054	+ 0.310	...	...
167	W. B. E. IX. 270 ...	+ 3.2717	- 0.0104	...	+ 15.073	+ 0.310	...	...
168	κ Argûs ...	+ 1.8576	+ 0.0027	...	+ 15.277	+ 0.169	...	...
169	R. P. L. 62 ...	+ 23.7805	- 8.0997	...	+ 15.441	+ 2.206	...	...
170	Lalande 19559 ...	+ 2.8205	+ 0.0039	...	+ 17.090	+ 0.209	...	...
171	Lalande 19846 ...	+ 2.8761	+ 0.0035	...	+ 17.610	+ 0.193	...	...
172	33 Ursæ Majoris λ ...	+ 3.6579	- 0.0386	- 0.017	+ 17.789	+ 0.240	+ 0.06	1421
173	W. B. E. X. 228 ...	+ 2.9249	+ 0.0028	...	+ 17.987	+ 0.181	...	...
174	Lalande 20089 ...	+ 2.9152	+ 0.0031	...	+ 17.992	+ 0.180	...	...
175	... ...	+ 3.1281	- 0.0057	...	+ 18.025	+ 0.193	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
176	Lalande 20205	8.0	3	10	19	29.37	84	50	7.8	5	0.27
177	Lalande 20521	6.7	5	10	30	28.06	99	58	33.9	5	0.15
178	Yarnall 4420	7.0	5	10	30	42.70	101	36	8.6	5	0.15
179	58 Leonis <i>d</i>	5.0	...	10	54	31.04	85	45	16.3	10	0.18
180	70 Leonis <i>θ</i>	3.5	...	11	8	5.97	73	55	52.0	5	0.18
181	84 Leonis <i>τ</i>	5.1	...	11	21	55.21	86	29	53.5	10	0.22
182	... ..	9.5	5	11	22	33.38	92	38	7.4	5	0.27
183	R. P. L. 82	7.0	...	11	26	38.94	3	44	15.7	15	0.45
184	R. P. L. 87	8.0	...	11	53	30.94	2	21	15.1	4	0.90
185	8 Virginis <i>π</i>	4.4	...	11	54	52.59	82	44	0.1	10	0.27
186	R. P. L. 97	7.2	...	12	37	34.31	5	42	52.0	3	0.91
187	R. P. L. 98	6.6	...	12	48	7.98	5	56	45.1	2	0.92
188	R. P. L. 99	5.6	...	12	48	16.20	5	57	4.6	2	0.97
189	77 Ursæ Majoris <i>ε</i>	1.8	...	12	48	52.59	33	24	17.7	5	0.26
190	43 Virginis <i>δ</i>	3.7	...	12	49	42.64	85	57	57.2	20	0.30
191	47 Virginis <i>ε</i>	3.0	...	12	56	21.16	78	24	42.2	30	0.32
192	R. P. L. 100	8.0	...	13	0	26.77	3	29	7.4	4	0.71
193	51 Virginis <i>θ</i>	4.4	...	13	3	53.52	94	54	48.8	11	0.35
194	R. P. L. 101	7.5	...	13	7	6.31	1	43	20.6	1	0.86
195	79 Virginis <i>ζ</i>	3.5	...	13	23	44.08	89	59	52.2	10	0.30
196	4 Bootis <i>τ</i>	4.5	...	13	41	42.10	71	57	31.2	10	0.28
197	85 Ursæ Majoris <i>η</i>	2.0	...	13	42	55.69	40	6	6.4	10	0.35
198	8 Bootis <i>η</i>	2.9	...	13	49	6.73	71	0	56.9	10	0.32
199	... ..	8.5	5	13	50	24.51	142	5	19.6	5	0.28
200	R. P. L. 108	7.8	...	14	1	29.77	3	40	55.6	1	0.99
201	Taylor 6609	7.2	...	14	5	40.83	131	5	32.7	5	0.32
202	Stone 7816—2nd	6.5	...	14	12	48.96	132	31	13.2	5	0.33
203	... ..	9.0	...	14	13	8.18	151	0	41.2	1	0.31
204	Stone 7826	6.9	...	14	14	9.36	156	6	31.8	2	0.30
205	... ..	7.0	3	14	21	19.61	150	19	32.5	3	0.34
206	... ..	8.9	5	14	21	30.45	150	17	33.2	5	0.33
207	Stone 7897	7.3	...	14	23	7.93	129	57	14.5	2	0.30
208	Stone 7947	7.1	...	14	29	31.32	157	41	41.6	2	0.30
209	Taylor 6811	7.8	...	14	30	6.60	132	36	5.4	5	0.32
210	Stone 7969	7.8	...	14	32	17.10	129	3	27.1	2	0.35

176.—Comparison star for Asia in 1883.

182.—Comparison star for Ariadne in 1883.

199.—Comparison star for Niobe in 1883.

177—178.—Comparison stars for Comet 1882, A.

188.—Groombridge 1940. 194.—Groombridge 2006.

200.—Groombridge 2099.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
176	Lalande 20205 ...	+ 3.1237	- 0.0056	...	+ 18.155	+ 0.182	...	...
177	Lalande 20521 ...	+ 2.9828	+ 0.0019	...	+ 18.542	+ 0.153	...	...
178	Yarnall 4420 ...	+ 2.9681	+ 0.0027	...	+ 18.551	+ 0.157	...	...
179	58 Leonis δ ...	+ 3.1003	- 0.0039	- 0.002	+ 19.241	+ 0.120	+ 0.01	1526
180	70 Leonis θ ...	+ 3.1588	- 0.0008	- 0.006	+ 19.542	+ 0.096	+ 0.06	1548
181	84 Leonis τ ...	+ 3.0850	- 0.0020	- 0.001	+ 19.777	+ 0.066	+ 0.01	1570
182	... ..	+ 3.0623	+ 0.0005	...	+ 19.786	+ 0.065	...	...
183	R. P. L. 82 ...	+ 6.0399	- 1.3276	...	+ 19.841	+ 0.119	...	...
184	R. P. L. 87 ...	+ 3.9924	- 1.1600	...	+ 20.046	+ 0.007	...	...
185	8 Virginis π ...	+ 3.0761	- 0.0023	- 0.003	+ 20.048	+ 0.002	+ 0.02	1618
186	R. P. L. 97 ...	+ 0.8920	+ 0.1284	...	+ 19.785	- 0.030	...	...
187	R. P. L. 98 ...	+ 0.3962	+ 0.2146	- 0.017	+ 19.613	- 0.020	- 0.02	1730
188	R. P. L. 99 ...	+ 0.3913	+ 0.2146	- 0.020	+ 19.610	- 0.020	- 0.02	1731
189	77 Ursæ Majoris ϵ ...	+ 2.6433	- 0.0273	+ 0.012	+ 19.590	- 0.080	+ 0.02	1722
190	43 Virginis δ ...	+ 3.0521	+ 0.0025	- 0.034	+ 19.585	- 0.103	+ 0.05	1723
191	47 Virginis ϵ ...	+ 3.0056	- 0.0007	- 0.019	+ 19.451	- 0.114	- 0.03	1735
192	R. P. L. 100 ...	- 2.6502	+ 1.2981	...	+ 19.360	+ 0.093	...	...
193	51 Virginis θ ...	+ 3.1040	+ 0.0078	- 0.004	+ 19.279	- 0.132	+ 0.04	1747
194	R. P. L. 101 ...	- 9.7598	+ 7.0045	...	+ 19.200	+ 0.403	...	...
195	99 Virginis ζ ...	+ 3.0723	+ 0.0064	- 0.021	+ 18.570	- 0.176	- 0.06	1789
196	4 Bootis τ ...	+ 2.8854	- 0.0007	- 0.035	+ 18.111	- 0.188	- 0.04	1810
197	85 Ursæ Majoris η ...	+ 2.8831	- 0.0103	- 0.012	+ 18.066	- 0.159	+ 0.01	1815
198	8 Bootis η ...	+ 2.8616	- 0.0006	- 0.005	+ 17.823	- 0.199	+ 0.34	1821
199	... ..	+ 3.8675	+ 0.0584	...	+ 17.773	- 0.268	...	...
200	R. P. L. 108 ...	- 7.4318	+ 2.3498	...	+ 17.301	+ 0.541	...	...
201	Taylor 6609 ...	+ 3.6801	+ 0.0383	...	+ 17.113	- 0.285	...	...
202	Stone 7816 ...	+ 3.7437	+ 0.0404	...	+ 16.780	- 0.305	...	...
203	... ..	+ 4.3965	+ 0.0910	...	+ 16.765	- 0.357	...	...
204	Stone 7826 ...	+ 4.7398	+ 0.1241	...	+ 16.715	- 0.387	...	...
205	... ..	+ 4.4292	+ 0.0878	...	+ 16.359	- 0.379	...	...
206	... ..	+ 4.4289	+ 0.0877	...	+ 16.351	- 0.379	...	...
207	Stone 7897 ...	+ 3.7271	+ 0.0367	...	+ 16.268	- 0.324	...	...
208	Stone 7947 ...	+ 5.0506	+ 0.1394	...	+ 15.936	- 0.452	...	...
209	Taylor 6811 ...	+ 3.8212	+ 0.0403	...	+ 15.903	- 0.345	...	...
210	Stone 7969 ...	+ 3.7413	+ 0.0352	...	+ 15.788	- 0.342	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
211	... ..	8.5	...	14	35	28.51	151	25	42.9	1	0.34
212	... ..	8.5	...	14	38	46.84	128	6	32.4	1	0.30
213	Taylor 6891	6.8	...	14	39	56.08	133	3	50.8	5	0.32
214	... ..	7.5	5	14	42	48.04	126	54	24.4	5	0.35
215	Taylor 6925	5.7	...	14	45	30.72	127	19	14.0	5	0.33
216	... ..	7.5	2	14	47	5.48	131	33	52.9	3	0.30
217	... ..	7.5	3	14	48	10.26	126	41	4.9	4	0.32
218	7 Ursæ Minoris β , Var. 1.	Var.	...	14	51	3.41	15	21	57.8	5	0.36
219	Stone 8165	7.8	...	14	52	35.22	129	19	45.5	5	0.34
220	R. P. L. 110	7.0	...	14	52	58.59	3	34	5.8	4	0.11
221	... ..	8.0	1	14	53	29.62	131	49	19.1	3	0.30
222	Taylor 7001	6.7	...	14	56	15.52	125	28	54.2	5	0.32
223	Taylor 7027	6.8	...	14	58	53.17	125	48	33.1	1	0.30
224	27 Libræ β	2.7	...	15	10	42.08	98	57	0.6	10	0.34
225	R. P. L. 114	6.9	...	15	15	19.89	2	19	8.7	3	0.04
226	... ..	9.0	2	15	37	81.10	155	8	45.7	2	0.40
227	24 Serpentis α	2.7	...	15	38	30.32	83	12	18.8	14	0.39
228	37 Serpentis ϵ	3.7	...	15	44	59.03	85	10	7.7	10	0.39
229	... ..	8.3	...	15	46	27.90	130	46	30.0	4	0.45
230	R. P. L. 116	7.0	...	16	0	47.47	4	21	54.1	11	0.19
231	R. P. L. 117	7.2	...	16	3	14.60	6	2	42.6	13	0.11
232	... ..	7.8	...	16	5	1.55	133	46	12.3	2	0.36
233	... ..	8.5	2	16	6	5.44	125	29	45.0	2	0.36
234	Stone 8832	8.0	...	16	7	57.02	135	5	30.7	2	0.34
235	... ..	8.0	4	16	8	14.33	135	14	55.6	4	0.38
236	Stone 8853	7.6	...	16	10	37.47	124	37	29.3	3	0.35
237	19 Ursæ Minoris	5.5	...	16	14	10.02	13	49	42.3	2	0.37
238	Stone 8892	6.6	...	16	14	44.60	152	51	1.4	4	0.35
239	20 Herculis γ	3.8	...	16	16	45.49	70	34	15.3	10	0.41
240	... ..	8.5	4	16	18	6.14	130	57	19.4	4	0.37
241	21 Ursæ Minoris η	5.0	...	16	20	56.10	13	58	30.9	4	0.36
242	... ..	8.0	3	16	23	32.67	136	25	16.7	3	0.36
243	... ..	7.5	1	16	23	38.69	128	44	44.1	1	0.34
244	27 Herculis β	2.8	...	16	25	11.32	68	15	19.0	1	0.39
245	Stone 8976	7.3	...	16	25	25.82	123	16	49.6	3	0.37

225.—Groombridge 2283.

230.—Carrington 2428.

229.—Comparison star for Phædra in 1881.

231.—Carrington 2424.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
211	...	+ 4.6129	+ 0.0930	...	+ 15.614	- 0.427	...	...
212	...	+ 3.7422	+ 0.0339	...	+ 15.431	- 0.354	...	...
213	Taylor 6991	+ 3.8752	+ 0.0406	...	+ 15.366	- 0.369	...	...
214	...	+ 3.7271	+ 0.0323	...	+ 15.203	- 0.300	...	...
215	Taylor 6925	+ 3.7461	+ 0.0326	...	+ 15.048	- 0.366	...	...
216	...	+ 3.8621	+ 0.0379	...	+ 14.957	- 0.380	...	...
217	...	+ 3.7393	+ 0.0319	...	+ 14.893	- 0.370	...	...
218	7 Ursæ Minoris β	- 0.2306	+ 0.1022	- 0.008	+ 14.722	+ 0.018	+ 0.01	1917
219	Stone 8165	+ 3.8214	+ 0.0346	...	+ 14.631	- 0.386	...	...
220	R. P. L. 110	- 11.6097	+ 3.0017	...	+ 14.613	+ 1.154	...	...
221	...	+ 3.8838	+ 0.0378	...	+ 14.576	- 0.395	...	...
222	Taylor 7001	+ 3.7351	+ 0.0300	...	+ 14.410	- 0.384	...	...
223	Taylor 7027	+ 3.7510	+ 0.0302	...	+ 14.249	- 0.390	...	...
224	27 Libræ β	+ 3.2280	+ 0.0117	- 0.008	+ 13.502	- 0.353	+ 0.02	1934
225	R. P. L. 114	- 21.7776	+ 7.3882	...	+ 13.200	+ 2.385	...	...
226	...	+ 5.4187	+ 0.1022	...	+ 11.679	- 0.645	...	...
227	24 Serpentis α	+ 2.9425	+ 0.0062	+ 0.008	+ 11.610	- 0.354	- 0.06	1990
228	37 Serpentis ϵ	+ 2.9784	+ 0.0066	+ 0.007	+ 11.143	- 0.365	- 0.06	2005
229	...	+ 4.0350	+ 0.0306	...	+ 11.034	- 0.405	...	...
230	R. P. L. 116	- 12.1258	+ 1.7439	...	+ 9.967	+ 1.530	...	...
231	R. P. L. 117	- 7.9486	+ 0.8614	...	+ 9.780	+ 1.008	...	...
232	...	+ 4.1953	+ 0.0307	...	+ 9.644	- 0.539	...	...
233	...	+ 3.9105	+ 0.0227	...	+ 9.562	- 0.505	...	...
234	Stone 8832	+ 4.2564	+ 0.0318	...	+ 9.419	- 0.551	...	...
235	...	+ 4.2637	+ 0.0319	...	+ 9.396	- 0.552	...	...
236	Stone 8853	+ 3.8924	+ 0.0214	...	+ 9.211	- 0.507	...	...
237	19 Ursæ Minoris	- 1.7925	+ 0.1206	- 0.005	+ 8.934	+ 0.231	- 0.00	2096
238	Stone 8892	+ 5.4092	+ 0.0715	...	+ 8.888	- 0.709	...	...
239	20 Herculis γ	+ 2.6479	+ 0.0038	- 0.005	+ 8.732	- 0.351	- 0.05	2084
240	...	+ 4.1198	+ 0.0254	...	+ 8.627	- 0.545	...	...
241	21 Ursæ Minoris η	- 1.8051	+ 0.1185	- 0.019	+ 8.401	+ 0.237	- 0.25	2111
242	...	+ 4.3548	+ 0.0299	...	+ 8.192	- 0.583	...	...
243	...	+ 4.0517	+ 0.0225	...	+ 8.187	- 0.543	...	...
244	27 Herculis β	+ 2.5841	+ 0.0037	- 0.009	+ 8.061	- 0.348	+ 0.02	2100
245	Stone 8976	+ 3.8762	+ 0.0185	...	+ 8.041	- 0.520	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
246	... ..	9.5	3	16	29	2.63	125	32	36.0	3	0.38
247	γ^1 Trianguli Australis ...	6.4	...	16	29	19.56	158	3	36.1	2	0.36
248	Stone 9014	7.3	...	16	30	33.44	128	54	48.0	1	0.34
249	13 Ophiuchi ζ	2.8	...	16	30	43.00	100	19	44.0	20	0.42
250	Lacaille 6881	6.6	...	16	31	31.80	157	12	5.0	2	0.35
251	... ..	7.5	5	16	36	1.15	128	6	36.3	5	0.37
252	... ..	8.0	2	16	38	51.77	125	34	33.7	2	0.35
253	... ..	9.5	4	16	41	15.34	126	18	21.2	4	0.40
254	... ..	7.5	...	16	41	37.68	132	53	52.9	1	0.35
255	... ..	8.0	3	16	42	29.49	127	50	30.9	3	0.36
256	... ..	7.5	5	16	44	2.02	129	2	39.4	5	0.39
257	Taylor 7793	7.0	...	16	44	42.16	127	23	47.9	1	0.35
258	... ..	9.5	2	16	49	0.76	132	12	58.1	2	0.37
259	... ..	8.5	4	16	50	20.18	128	26	17.6	4	0.35
260	... ..	9.0	...	16	56	52.92	129	52	39.8	5	0.37
261	22 Ursæ Minoris ϵ ...	4.5	...	16	57	59.87	7	46	16.0	2	0.41
262	... ..	9.0	1	16	59	23.33	132	35	35.5	1	0.34
263	R. P. L. 118	8.0	...	17	1	59.57	5	8	35.3	15	0.24
264	Stone 9338	7.3	...	17	2	48.32	131	17	23.8	5	0.39
265	... ..	7.5	5	17	2	50.92	131	32	56.1	5	0.40
266	35 Ophiuchi η	2.6	...	17	3	40.07	105	34	43.4	20	0.52
267	... ..	8.5	...	17	6	15.90	131	19	56.9	1	0.36
268	Stone 9389	8.0	...	17	8	59.80	129	17	48.0	2	0.37
269	... ..	8.2	5	17	9	34.27	128	31	54.9	5	0.61
270	... ..	9.0	5	17	10	16.68	123	20	55.3	5	0.50
271	... ..	8.0	4	17	10	47.19	125	57	32.2	4	0.57
272	Stone 9428	7.0	...	17	12	18.41	155	35	2.3	1	0.38
273	... ..	9.0	4	17	13	18.04	129	22	40.0	4	0.44
274	... ..	7.4	4	17	14	38.76	131	58	17.8	4	0.39
275	Stone 9448—2nd	7.3	...	17	14	41.28	128	5	8.6	4	0.38
276	... ..	9.3	...	17	15	31.03	145	52	52.1	5	0.60
277	... ..	9.1	5	17	17	18.77	138	28	55.2	5	0.47
278	Stone 9479	7.7	...	17	17	27.63	138	30	22.0	5	0.51
279	49 Ophiuchi σ	4.4	...	17	20	42.58	85	45	25.1	10	0.41
280	... ..	8.0	5	17	21	46.19	127	10	45.3	5	0.58

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
246	... ..	+ 3·9532	+ 0·0192	...	+ 7·751	- 0·534	...	...
247	η^1 Trianguli Australis	+ 6·1349	+ 0·0913	...	+ 7·729	- 0·827	...	...
248	Stone 9014 ...	+ 4·0705	+ 0·0213	...	+ 7·629	- 0·551	...	...
249	13 Ophiuchi ζ ...	+ 3·2977	+ 0·0087	- 0·001	+ 7·616	- 0·447	- 0·04	2109
250	Lacaille 6881 ...	+ 6·0189	+ 0·0837	...	+ 7·550	- 0·814	...	...
251	... ..	+ 4·0514	+ 0·0196	...	+ 7·186	- 0·554	...	...
252	... ..	+ 3·9693	+ 0·0175	...	+ 6·952	- 0·547	...	...
253	... ..	+ 3·9972	+ 0·0176	...	+ 6·755	- 0·551	...	...
254	... ..	+ 4·2427	+ 0·0220	...	+ 6·724	- 0·585	...	...
255	... ..	+ 4·0521	+ 0·0182	...	+ 6·653	- 0·560	...	...
256	... ..	+ 4·0977	+ 0·0188	...	+ 6·527	- 0·567	...	...
257	Taylor 7793 ...	+ 4·0398	+ 0·0175	...	+ 6·470	- 0·560	...	...
258	... ..	+ 4·2275	+ 0·0197	...	+ 6·113	- 0·590	...	...
259	... ..	+ 4·0848	+ 0·0171	...	+ 6·002	- 0·571	...	...
260	... ..	+ 4·1472	+ 0·0164	...	+ 5·453	- 0·588	...	...
261	22 Ursæ Minoris ϵ ...	- 6·3674	+ 0·3104	+ 0·009	+ 5·359	+ 0·893	+ 0·00	2201
262	... ..	+ 4·2587	+ 0·0175	...	+ 5·242	- 0·601	...	...
263	R. P. L. 118 ...	- 11·3079	+ 0·7060	...	+ 5·022	+ 1·594	...	...
264	Stone 9338 ...	+ 4·2101	+ 0·0159	...	+ 4·952	- 0·597	...	...
265	... ..	+ 4·2205	+ 0·0160	...	+ 4·949	- 0·598	...	...
266	35 Ophiuchi η ...	+ 3·1339	+ 0·0073	...	+ 4·880	- 0·487	...	...
267	... ..	+ 4·2160	+ 0·0150	...	+ 4·659	- 0·600	...	...
268	Stone 9389 ...	+ 4·1394	+ 0·0134	...	+ 4·426	- 0·590	...	...
269	... ..	+ 4·1112	+ 0·0131	...	+ 4·377	- 0·587	...	...
270	... ..	+ 3·9316	+ 0·0110	...	+ 4·317	- 0·562	...	...
271	... ..	+ 4·0200	+ 0·0123	...	+ 4·269	- 0·623	...	...
272	Stone 9428 ...	+ 5·9538	+ 0·0431	...	+ 4·143	- 0·851	...	...
273	... ..	+ 4·1470	+ 0·0126	...	+ 4·057	- 0·594	...	...
274	... ..	+ 4·2515	+ 0·0134	...	+ 3·942	- 0·609	...	...
275	Stone 9448 ...	+ 4·0996	+ 0·0118	...	+ 3·938	- 0·588	...	...
276	... ..	+ 5·0084	+ 0·0231	...	+ 3·868	- 0·718	...	...
277	... ..	+ 4·5563	+ 0·0162	...	+ 3·714	- 0·654	...	...
278	Stone 9479 ...	+ 4·5578	+ 0·0161	...	+ 3·701	- 0·655	...	...
279	49 Ophiuchi σ ...	+ 2·9746	+ 0·0037	- 0·002	+ 3·421	- 0·428	- 0·02	2206
280	... ..	+ 4·0795	+ 0·0100	...	+ 3·330	- 0·586	...	...

Mean Positions of Stars for 1888, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	'	"		
281	α Aræ	2.9	...	17	22	47.74	139	46	53.0	5	0.57
282	δ Scorpii	2.8	...	17	22	48.30	127	12	3.8	3	0.62
283	Stone 9566	7.3	...	17	26	10.82	130	26	47.9	5	0.51
284	...	9.0	...	17	28	7.56	134	29	10.4	1	0.40
285	Stone 9578	7.8	...	17	28	9.80	146	44	38.7	3	0.63
286	Brisbane 6132	9.0	...	17	28	38.23	135	4	47.9	1	0.38
287	θ Scorpii	2.1	...	17	28	54.63	132	55	16.9	5	0.44
288	...	8.0	5	17	29	8.92	128	42	31.2	5	0.58
289	...	7.0	5	17	31	44.58	128	17	57.8	5	0.39
290	R. P. L. 120	7.3	...	17	31	46.62	5	17	25.9	15	0.21
291	...	7.0	5	17	32	56.17	130	1	35.8	5	0.52
292	Brisbane 6160	8.0	1	17	33	20.24	134	43	12.5	1	0.38
293	...	7.5	5	17	35	28.25	144	4	40.2	5	0.61
294	δ Ophiuchi	2.9	...	17	37	41.47	85	22	57.4	20	0.48
295	...	8.5	3	17	39	34.72	128	18	48.5	4	0.51
296	...	8.5	5	17	40	23.34	128	18	53.4	5	0.58
297	...	8.5	...	17	42	51.28	143	28	17.8	2	0.65
298	...	7.5	5	17	44	10.67	129	6	59.0	5	0.39
299	Taylor 8243	6.8	...	17	44	30.74	131	57	29.8	5	0.43
300	...	9.5	4	17	45	11.77	131	58	2.9	5	0.44
301	...	9.0	5	17	45	39.91	129	13	59.3	5	0.59
302	...	8.0	3	17	50	28.60	151	21	13.9	3	0.38
303	...	7.8	5	17	51	51.27	129	3	3.6	5	0.48
304	...	7.0	5	17	52	15.75	127	23	51.0	5	0.40
305	...	9.0	4	17	52	34.29	137	2	20.2	5	0.43
306	O. A. S. 17446	8.0	5	17	52	45.56	119	52	58.5	5	0.61
307	O. A. S. 17452	7.8	...	17	52	58.46	119	48	53.8	5	0.57
308	...	8.9	1	17	56	36.54	128	56	59.8	1	0.38
309	Stone 9840	7.5	...	17	57	33.63	127	28	30.9	5	0.47
310	...	7.8	...	17	58	5.33	127	26	20.2	5	0.44
311	Stone 9849	7.8	...	17	58	13.24	127	30	7.2	5	0.52
312	...	8.5	...	17	59	22.57	128	13	8.7	5	0.39
313	...	8.0	5	17	59	31.69	129	31	42.9	5	0.61
314	...	7.5	4	18	3	22.12	128	12	57.8	5	0.64
315	...	9.7	1	18	5	50.73	133	7	10.8	1	0.45

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
281	α Arao ...	+ 4.6325	+ 0.0149	- 0.005	+ 3.241	- 0.667	+ 0.09	Stone
282	β Scorpii v ...	+ 4.0738	+ 0.0097	- 0.004	+ 3.240	- 0.587	+ 0.03	2205
283	Stone 9566 ...	+ 4.1997	+ 0.0099	...	+ 2.949	- 0.606	...	...
284	... ..	+ 4.3729	+ 0.0108	...	+ 2.779	- 0.632	...	...
285	Stone 9578 ...	+ 5.0914	+ 0.0176	...	+ 2.777	- 0.736	...	...
286	Brisbane 6132	+ 4.4005	+ 0.0113	...	+ 2.735	- 0.650	...	...
287	θ Scorpii ...	+ 4.3042	+ 0.0100	+ 0.001	+ 2.713	- 0.623	+ 0.02	Stone
288	... ..	+ 4.1340	+ 0.0087	...	+ 2.601	- 0.598	...	...
289	... ..	+ 4.1201	+ 0.0081	...	+ 2.466	- 0.597	...	...
290	R. P. L. 120 ...	- 11.2557	+ 0.3396	...	+ 2.463	+ 1.628	...	...
291	... ..	+ 4.1874	+ 0.0081	...	+ 2.362	- 0.607	...	...
292	Brisbane 6160	+ 4.3872	+ 0.0093	...	+ 2.327	- 0.636	...	...
293	... ..	+ 4.9072	+ 0.0124	...	+ 2.142	- 0.712	...	...
294	ϕ Ophiuchi β ...	+ 2.9640	+ 0.0030	- 0.005	+ 1.940	- 0.431	- 0.17	2220
295	... ..	+ 4.1245	+ 0.0062	...	+ 1.785	- 0.600	...	...
296	... ..	+ 4.1250	+ 0.0060	...	+ 1.714	- 0.597	...	...
297	... ..	+ 4.8722	+ 0.0089	...	+ 1.499	- 0.709	...	...
298	... ..	+ 4.1569	+ 0.0052	...	+ 1.384	- 0.605	...	...
299	Taylor 8243 ...	+ 4.2715	+ 0.0056	...	+ 1.354	- 0.622	...	...
300	... ..	+ 4.2722	+ 0.0055	...	+ 1.294	- 0.622	...	...
301	... ..	+ 4.1619	+ 0.0049	...	+ 1.253	- 0.607	...	...
302	... ..	+ 5.5175	+ 0.0077	...	+ 0.833	- 0.804	...	...
303	... ..	+ 4.1563	+ 0.0034	...	+ 0.713	- 0.606	...	...
304	... ..	+ 4.0939	+ 0.0033	...	+ 0.677	- 0.597	...	...
305	... ..	+ 4.5073	+ 0.0039	...	+ 0.651	- 0.657	...	...
306	O. A. S. 17446	+ 3.8401	+ 0.0029	...	+ 0.633	- 0.560	...	...
307	O. A. S. 17452	+ 3.8381	+ 0.0029	...	+ 0.614	- 0.559	...	...
308	... ..	+ 4.1529	+ 0.0024	...	+ 0.297	- 0.605	...	...
309	Stone 9840 ...	+ 4.0973	+ 0.0022	...	+ 0.213	- 0.598	...	...
310	... ..	+ 4.0959	+ 0.0020	...	+ 0.167	- 0.597	...	...
311	Stone 9840 ...	+ 4.0983	+ 0.0020	...	+ 0.156	- 0.597	...	...
312	... ..	+ 4.1250	+ 0.0017	...	+ 0.054	- 0.602	...	...
313	... ..	+ 4.1754	+ 0.0017	...	+ 0.041	- 0.609	...	...
314	... ..	+ 4.1249	+ 0.0009	...	- 0.295	- 0.602	...	...
315	... ..	+ 4.3239	- 0.0001	...	- 0.511	- 0.630	...	...

Mean Positions of Stars for 1888, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
316	Stone 9922 ...	8·5	...	18	5	52·89	133	10	51·9	7	0·45
317	Stone 9924 ...	7·8	...	18	6	0·80	131	56	16·0	5	0·41
318	... ..	7·8	...	18	6	41·70	126	55	45·0	5	0·59
319	... ..	8·8	4	18	9	4·95	131	16	17·5	4	0·52
320	23 Ursæ Minoris δ ...	4·3	...	18	10	3·20	3	23	23·5	2	0·52
321	... ..	8·0	1	18	10	21·14	126	23	38·6	1	0·39
322	... ..	8·0	4	18	13	25·62	136	5	3·0	5	0·41
323	... ..	8·8	...	18	14	12·57	127	48	38·4	1	0·40
324	Taylor 8452 ...	5·6	...	18	14	14·53	128	42	29·1	5	0·67
325	58 Serpentis γ ...	3·4	...	18	15	15·31	92	55	41·4	20	0·55
326	... ..	7·0	1	18	15	22·31	128	47	29·8	4	0·68
327	... ..	8·0	...	18	15	42·39	138	50	53·2	4	0·39
328	... ..	8·0	1	18	16	32·65	127	17	6·3	1	0·38
329	22 Sagittarii λ ...	3·1	...	18	20	44·98	115	29	6·0	20	0·58
330	... ..	8·5	...	18	22	46·04	129	38	50·7	5	0·40
331	... ..	8·3	3	18	23	24·80	127	40	10·8	5	0·45
332	Stone 10124 ...	7·8	...	18	29	26·77	131	42	32·5	5	0·40
333	... ..	8·5	6	18	30	45·34	127	5	57·3	6	0·60
334	... ..	9·0	5	18	30	55·24	127	58	18·2	5	0·58
335	... ..	7·5	4	18	31	24·86	127	23	13·7	5	0·44
336	Stone 10154 ...	8·0	...	18	32	12·22	134	16	33·3	3	0·38
337	... ..	8·0	5	18	34	2·27	125	42	5·5	5	0·41
338	... ..	8·0	...	18	34	16·67	124	34	17·8	5	0·69
339	Stone 10187 ...	7·8	...	18	36	45·11	127	0	7·7	5	0·61
340	Taylor 8599 ...	5·8	...	18	36	40·40	120	48	0·5	6	0·53
341	Taylor 8600 ...	7·0	...	18	36	51·47	129	51	37·1	5	0·50
342	... ..	7·5	5	18	38	45·51	131	17	0·6	5	0·39
343	... ..	9·0	5	18	39	14·18	128	56	34·0	5	0·42
344	Stone 10239 ...	8·0	...	18	42	49·47	134	36	20·4	6	0·61
345	... ..	8·3	...	18	43	31·09	134	49	13·4	5	0·66
346	Taylor 8647 ...	7·0	...	18	43	38·57	134	40	15·1	4	0·72
347	... ..	7·9	2	18	43	48·78	125	31	2·0	3	0·70
348	... ..	9·1	5	18	45	24·16	129	28	13·7	4	0·42
349	... ..	8·5	..	18	47	6·54	133	50	46·5	5	0·67
350	Taylor 8685 ...	5·7	...	18	48	44·17	127	29	25·4	5	0·61

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
316	Stone 9922 ...	+ 4.3266	- 0.0001	...	- 0.515	- 0.631	...	...
317	Stone 9924 ...	+ 4.2731	+ 0.0001	...	- 0.527	- 0.623	...	...
318	... ..	+ 4.0767	+ 0.0002	...	- 0.586	- 0.594	...	...
319	... ..	+ 4.2447	- 0.0008	...	- 0.795	- 0.610	...	...
320	23 Ursæ Minoris δ ...	- 19.4710	- 0.2912	+ 0.026	- 0.879	+ 2.837	- 0.04	2395
321	... ..	+ 4.0568	- 0.0006	...	- 0.905	- 0.591	...	...
322	... ..	+ 4.4585	- 0.0028	...	- 1.175	- 0.649	...	...
323	... ..	+ 4.1079	- 0.0015	...	- 1.243	- 0.598	...	...
324	Taylor 8452 ...	+ 4.1417	- 0.0018	...	- 1.246	- 0.402	...	...
325	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.334	- 0.456	+ 0.08	2298
326	... ..	+ 4.1445	- 0.0021	...	- 1.344	- 0.602	...	...
327	... ..	+ 4.5985	- 0.0042	...	- 1.373	- 0.668	...	...
328	... ..	+ 4.0876	- 0.0020	...	- 1.447	- 0.594	...	...
329	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.813	- 0.537	+ 0.20	2310
330	... ..	+ 4.1747	- 0.0040	...	- 1.988	- 0.605	...	...
331	... ..	+ 4.0991	- 0.0037	...	- 2.046	- 0.594	...	...
332	Stone 10124 ...	+ 4.2541	- 0.0061	...	- 2.569	- 0.615	...	...
333	... ..	+ 4.0744	- 0.0051	...	- 2.683	- 0.588	...	...
334	... ..	+ 4.1063	- 0.0053	...	- 2.698	- 0.593	...	...
335	... ..	+ 4.0845	- 0.0053	...	- 2.741	- 0.589	...	...
336	Stone 10154 ...	+ 4.3631	- 0.0079	...	- 2.809	- 0.630	...	...
337	... ..	+ 4.0225	- 0.0054	...	- 2.967	- 0.580	...	...
338	... ..	+ 3.9834	- 0.0052	...	- 2.989	- 0.574	...	...
339	Stone 10187 ...	+ 4.0069	- 0.0064	...	- 3.203	- 0.585	...	...
340	Taylor 8599 ...	+ 4.1719	- 0.0073	...	- 3.208	- 0.600	...	...
341	Taylor 8600 ...	+ 4.1742	- 0.0073	...	- 3.211	- 0.600	...	...
342	... ..	+ 4.2294	- 0.0084	...	- 3.376	- 0.607	...	...
343	... ..	+ 4.1369	- 0.0077	...	- 3.417	- 0.594	...	...
344	Stone 10239 ...	+ 4.3681	- 0.0110	...	- 3.726	- 0.625	...	...
345	... ..	+ 4.3770	- 0.0113	...	- 3.785	- 0.625	...	...
346	Taylor 8647 ...	+ 4.3701	- 0.0113	...	- 3.796	- 0.624	...	...
347	... ..	+ 4.0092	- 0.0073	...	- 3.811	- 0.573	...	...
348	... ..	+ 4.1518	- 0.0093	...	- 3.946	- 0.591	...	...
349	... ..	+ 4.3295	- 0.0117	...	- 4.098	- 0.617	...	...
350	Taylor 8685 ...	+ 4.0748	- 0.0090	...	- 4.233	- 0.579	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
351	... ..	9.5	1	18	52	14.82	132	56	57.4	1	0.41
352	Taylor 8715—1st ...	7.0	...	18	53	8.64	127	18	15.9	5	0.70
353	Taylor 8715—2nd ...	7.0	...	18	53	9.78	127	13	18.8	5	0.72
354	... ..	8.5	2	18	53	54.87	128	6	56.3	2	0.64
355	13 Aquilæ ε ...	4.1	...	18	54	18.63	75	5	22.4	20	0.58
356	Stone 10351 ...	6.1	...	18	55	18.25	128	25	12.8	4	0.75
357	... ..	7.5	...	19	0	11.78	135	15	26.1	5	0.65
358	Stone 10391 ...	7.8	...	19	0	33.02	132	36	21.7	2	0.74
359	Stone 10400 ...	7.2	...	19	1	34.57	130	0	38.1	5	0.50
360	... ..	8.5	3	19	4	10.04	135	27	41.6	3	0.61
361	Stone 10420 ...	7.0	...	19	4	14.51	127	46	27.6	5	0.75
362	Stone 10432 ...	6.3	...	19	6	8.73	135	23	24.5	2	0.60
363	... ..	7.5	2	19	7	41.63	129	24	5.3	2	0.65
364	Taylor 8823 ...	5.9	...	19	7	50.30	135	40	3.9	6	0.66
365	Stone 10451 ...	7.3	...	19	8	52.33	135	37	33.5	4	0.71
366	... ..	9.5	2	19	10	13.35	130	46	34.3	2	0.61
367	... ..	7.5	1	19	10	40.16	129	45	12.3	1	0.61
368	Stone 10465 ...	5.9	...	19	11	54.58	125	37	59.2	3	0.75
369	Stone 10467 ...	7.5	...	19	12	30.42	135	35	11.6	5	0.56
370	Stone 10487 ...	7.0	...	19	14	14.57	119	49	17.6	4	0.74
371	... ..	8.3	...	19	14	18.77	127	26	18.2	5	0.68
372	... ..	8.5	...	19	17	6.82	130	4	36.7	2	0.59
373	49 Sagittarii χ ³ ...	5.9	...	19	18	24.65	114	11	24.7	2	0.76
374	... ..	9.5	5	19	19	47.76	130	13	12.0	5	0.62
375	Stone 10534 ...	8.0	...	19	21	55.22	125	19	13.6	4	0.75
376	... ..	8.0	3	19	22	5.72	132	34	16.5	4	0.63
377	... ..	9.0	1	19	25	49.63	133	42	50.9	1	0.60
378	... ..	9.0	...	19	25	58.53	146	55	2.3	2	0.70
379	Taylor 8932 ...	6.3	...	19	28	35.13	148	14	24.0	1	0.78
380	Stone 10533 ...	7.5	...	19	29	32.25	131	42	58.4	5	0.60
381	... ..	8.0	3	19	29	45.63	125	29	57.8	4	0.67
382	... ..	8.0	1	19	30	11.65	129	1	8.4	1	0.57
383	Stone 10594 ...	6.7	...	19	31	17.22	135	32	34.2	5	0.74
384	Stone 10598 ...	6.8	...	19	31	57.26	129	41	47.1	2	0.78
385	... ..	7.5	1	19	33	25.30	126	35	58.9	1	0.76

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
351	... ..	+ 4.2846	- 0.0126	...	- 4.533	- 0.007	...	...
352	Taylor 8715—1st. ...	+ 4.0607	- 0.0008	...	- 4.609	- 0.575	...	...
353	Taylor 8715—2nd. ...	+ 4.0607	- 0.0008	...	- 4.610	- 0.575	...	...
354	... ..	+ 4.0923	- 0.0104	...	- 4.676	- 0.579	...	...
355	13 Aquilæ ε ...	+ 2.7263	+ 0.0004	- 0.005	- 4.708	- 0.385	+ 0.08	2390
356	Stone 10351 ...	+ 4.1020	- 0.0109	...	- 4.792	- 0.579	...	...
357	.. ...	+ 4.3750	- 0.0163	...	- 5.207	- 0.615	...	...
358	Stone 10391 ...	+ 4.2504	- 0.0145	...	- 5.237	- 0.598	...	...
359	Stone 10400 ...	+ 4.1543	- 0.0131	...	- 5.323	- 0.583	...	...
360	... ..	+ 4.3780	- 0.0176	...	- 5.542	- 0.612	...	...
361	Stone 10420 ...	+ 4.0679	- 0.0124	...	- 5.548	- 0.569	...	...
362	Stone 10432 ...	+ 4.3715	- 0.0179	...	- 5.708	- 0.610	...	...
363	... ..	+ 4.1231	- 0.0141	...	- 5.837	- 0.574	...	...
364	Taylor 8823 ...	+ 4.3813	- 0.0187	...	- 5.850	- 0.610	...	...
365	Stone 10451 ...	+ 4.3775	- 0.0190	...	- 5.936	- 0.608	...	...
366	... ..	+ 4.1717	- 0.0155	...	- 6.040	- 0.574	...	...
367	... ..	+ 4.1320	- 0.0149	...	- 6.085	- 0.573	...	...
368	Stone 10465 ...	+ 3.9839	- 0.0127	...	- 6.190	- 0.550	...	...
369	Stone 10467 ...	+ 4.3602	- 0.0199	...	- 6.239	- 0.603	...	...
370	Stone 10487 ...	+ 3.7989	- 0.0103	...	- 6.382	- 0.523	...	...
371	... ..	+ 4.0426	- 0.0112	...	- 6.388	- 0.557	...	...
372	... ..	+ 4.1342	- 0.0166	...	- 6.621	- 0.567	...	...
373	49 Sagittarii χ ³ ...	+ 3.6381	- 0.0085	- 0.003	- 6.729	- 0.497	+ 0.01	2446
374	... ..	+ 4.1351	- 0.0167	...	- 6.842	- 0.565	...	...
375	Stone 10534 ...	+ 3.9597	- 0.0144	...	- 7.017	- 0.539	...	...
376	... ..	+ 4.2237	- 0.0196	...	- 7.081	- 0.574	...	...
377	... ..	+ 4.2619	- 0.0214	...	- 7.335	- 0.576	...	...
378	... ..	+ 4.9917	- 0.0408	...	- 7.348	- 0.674	...	...
379	Taylor 8982 ...	+ 5.0736	- 0.0452	...	- 7.561	- 0.682	...	...
380	Stone 10583 ...	+ 4.1744	- 0.0205	...	- 7.637	- 0.561	...	...
381	... ..	+ 3.9538	- 0.0158	...	- 7.655	- 0.531	...	...
382	... ..	+ 4.0729	- 0.0184	...	- 7.690	- 0.546	...	...
383	Stone 10594 ...	+ 4.3281	- 0.0246	...	- 7.778	- 0.580	...	...
384	Stone 10598 ...	+ 4.0941	- 0.0192	...	- 7.833	- 0.548	...	...
385	... ..	+ 3.9838	- 0.0172	...	- 7.950	- 0.531	...	...

Mean Positions of Stars for 1888, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
386	Stone 10622	...	...	6.1	...	19 35 48.42	127	48	47.2	2	0.74
387	Stone 10624	...	...	7.2	...	19 36 21.52	131	53	8.2	3	0.78
388	R. P. L. 133	...	...	7.9	...	19 37 46.97	4	9	17.2	14	0.39
389	R. P. L. 134	...	...	8.5	...	19 39 34.83	4	9	32.2	16	0.32
390	...	...	...	8.0	3	19 39 48.75	125	27	35.9	3	0.59
391	...	...	...	7.8	...	19 40 25.74	128	8	6.1	5	0.70
392	Stone 10658	...	...	7.0	...	19 41 45.01	128	4	1.6	6	0.73
393	Stone 10665	...	...	6.7	...	19 42 49.76	141	16	11.3	5	0.79
394	Taylor 9112	...	...	5.6	...	19 43 53.65	130	10	9.5	2	0.57
395	Stone 10677	...	...	6.9	...	19 43 59.78	127	37	47.8	5	0.70
396	Taylor 9131	...	...	7.0	...	19 47 16.59	148	13	51.9	2	0.75
397	...	...	...	8.5	1	19 48 9.62	131	59	53.1	2	0.65
398	...	...	...	8.0	...	19 50 19.15	132	59	35.1	1	0.72
399	Stone 10720	...	...	6.9	...	19 50 30.12	126	59	48.8	5	0.78
400	Stone 10727	...	...	6.5	...	19 51 34.59	120	51	2.1	5	0.74
401	Stone 10739	...	...	6.7	...	19 52 18.08	133	21	38.8	4	0.79
402	Stone 10752	...	...	8.0	...	19 53 51.58	126	59	55.9	5	0.71
403	...	...	...	8.0	1	19 54 25.56	130	18	18.3	1	0.62
404	Taylor 9195	...	...	5.0	...	19 55 46.79	128	15	46.0	5	0.77
405	...	...	...	9.0	4	19 56 54.69	131	48	50.5	4	0.64
406	Taylor 9213	...	...	6.5	...	19 58 21.86	145	21	0.0	5	0.79
407	...	...	...	9.5	2	19 58 30.50	148	10	37.3	2	0.60
408	Stone 10792	...	...	7.3	...	19 59 43.80	125	51	59.7	5	0.74
409	Stone 10797	...	...	6.6	...	20 0 38.87	137	24	12.0	3	0.78
410	Stone 10823	...	...	6.8	...	20 5 6.58	138	3	38.5	5	0.79
411	65 Aquilæ θ	...	...	3.4	...	20 5 16.01	91	10	3.2	20	0.69
412	Taylor 9303	...	...	6.2	...	20 7 59.41	117	22	52.3	2	0.78
413	Stone 10840	...	...	6.5	...	20 8 46.46	126	48	34.5	5	0.79
414	Stone 10858	...	...	7.5	...	20 10 48.15	134	53	13.9	3	0.63
415	Stone 10859	...	...	6.3	...	20 10 52.69	137	56	11.5	5	0.75
416	Taylor 9343	...	...	6.5	...	20 13 10.93	140	21	33.5	4	0.81
417	Stone 10884	...	...	7.3	...	20 13 48.94	123	6	20.3	5	0.69
418	...	...	...	8.5	...	20 14 42.99	133	19	31.5	5	0.70
419	Taylor 9370	...	...	5.6	...	20 15 55.57	132	47	50.3	5	0.78
420	R. P. L. 138	...	...	7.1	...	20 16 18.24	5	40	30.6	5	0.68

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
386	Stone 10622 ...	+ 4.0192	- 0.0184	...	- 8.142	- 0.534	...	...
387	Stone 10624 ...	+ 4.1668	- 0.0221	...	- 8.184	- 0.553	...	...
388	R. P. L. 133 ...	- 13.6822	- 1.6816	...	- 8.290	+ 1.821	...	...
389	R. P. L. 134 ...	- 13.6049	- 1.7006	...	- 8.442	+ 1.804	...	...
390	... ..	+ 3.9356	- 0.0175	...	- 8.460	- 0.517	...	...
391	... ..	+ 4.0227	- 0.0195	...	- 8.509	- 0.528	...	...
392	Stone 10658 ...	+ 4.0178	- 0.0197	...	- 8.614	- 0.526	...	...
393	Stone 10665 ...	+ 4.5743	- 0.0356	...	- 8.699	- 0.598	...	...
394	Taylor 9112 ...	+ 4.0869	- 0.0218	...	- 8.783	- 0.533	...	...
395	Stone 10677 ...	+ 3.9987	- 0.0197	...	- 8.791	- 0.521	...	...
396	Taylor 9131 ..	+ 4.9989	- 0.0530	...	- 9.048	- 0.648	...	...
397	... ..	+ 4.1444	- 0.0245	...	- 9.117	- 0.535	...	...
398	... ..	+ 4.1772	- 0.0256	...	- 9.284	- 0.537	...	...
399	Stone 10720 ...	+ 3.9648	- 0.0202	...	- 9.299	- 0.509	...	...
400	Stone 10727 ...	+ 3.7781	- 0.0159	...	- 9.382	- 0.484	...	...
401	Stone 10739 ...	+ 4.1863	- 0.0268	...	- 9.430	- 0.536	...	...
402	Stone 10752 ...	+ 3.9579	- 0.0208	...	- 9.558	- 0.505	...	...
403	... ..	+ 4.0678	- 0.0239	...	- 9.601	- 0.518	...	...
404	Taylor 9195 ...	+ 3.9950	- 0.0222	...	- 9.706	- 0.507	...	...
405	... ..	+ 4.1161	- 0.0259	...	- 9.792	- 0.521	...	...
406	Taylor 9213 ...	+ 4.7543	- 0.0488	...	- 9.903	- 0.600	...	...
407	... ..	+ 4.0444	- 0.0572	...	- 9.914	- 0.623	...	...
408	Stone 10792 ...	+ 3.9099	- 0.0207	...	- 10.006	- 0.491	...	...
409	Stone 10797 ...	+ 4.3295	- 0.0338	...	- 10.074	- 0.543	...	...
410	Stone 10823 ...	+ 4.3441	- 0.0358	...	- 10.412	- 0.539	...	...
411	65 Aquila θ ...	+ 3.0957	- 0.0042	- 0.000	- 10.423	- 0.382	- 0.01	2576
412	Taylor 9303 ...	+ 3.6596	- 0.0155	...	- 10.626	- 0.448	...	...
413	Stone 10840 ...	+ 3.9190	- 0.0228	...	- 10.684	- 0.480	...	...
414	Stone 10858 ..	+ 4.1929	- 0.0323	...	- 10.835	- 0.511	...	...
415	Stone 10859 ...	+ 4.3188	- 0.0368	...	- 10.840	- 0.526	...	...
416	Taylor 9343 ...	+ 4.4211	- 0.0417	...	- 11.009	- 0.585	...	...
417	Stone 10884 ...	+ 3.7996	- 0.0202	...	- 11.055	- 0.458	...	...
418	... ..	+ 4.1210	- 0.0308	...	- 11.121	- 0.496	...	...
419	Taylor 9370 ..	+ 4.0988	- 0.0303	...	- 11.208	- 0.492	...	...
420	R. P. L. 138 ...	- 8.0705	- 1.0526	...	- 11.236	+ 0.980	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>'</i>	<i>"</i>	<i>'''</i>		
421	... ..	7.8	2	20	20	6.56	130	23	43.1	3	0.73
422	Taylor 9415	6.3	...	20	21	16.01	125	58	50.5	5	0.77
423	Stone 10939	6.5	...	20	23	46.73	119	30	11.9	5	0.80
424	Taylor 9464	7.8	...	20	26	40.77	112	37	37.0	4	0.79
425	R. P. L. 143	6.7	...	20	26	58.79	5	14	40.0	1	0.57
426	2 Delphini ε	4.1	...	20	27	37.31	79	5	37.2	25	0.72
427	Stone 11003	7.3	...	20	32	23.44	126	26	32.9	5	0.80
428	Taylor 9519	6.4	...	20	33	34.17	132	32	47.2	2	0.69
429	Taylor 9544	6.7	...	20	35	13.01	129	58	32.0	5	0.79
430	Taylor 9561	7.2	...	20	37	14.80	126	14	54.0	4	0.80
431	... ..	8.0	1	20	37	38.38	126	31	44.5	4	0.74
432	Taylor 9573	7.0	...	20	39	21.10	136	16	49.3	2	0.80
433	2 Aquarii ε	3.8	...	20	41	20.45	99	55	23.6	21	0.72
434	... ..	8.0	...	20	41	44.10	132	8	36.9	1	0.74
435	Taylor 9602	6.1	...	20	42	20.56	116	12	43.2	5	0.78
436	Stone 11081	7.5	...	20	43	59.40	131	20	28.7	1	0.73
437	Stone 11091	7.5	...	20	44	40.91	142	9	10.9	1	0.81
438	... ..	8.0	3	20	45	22.41	135	45	24.1	3	0.74
439	Stone 11103	6.6	...	20	46	13.38	141	10	0.8	5	0.69
440	Stone 11115	6.7	...	20	47	5.52	118	31	59.2	2	0.82
441	Stone 11120	7.8	...	20	47	24.40	145	39	55.4	5	0.80
442	... ..	8.5	1	20	52	32.74	129	10	32.6	2	0.70
443	Stone 11150	8.0	...	20	53	34.41	129	11	31.8	1	0.70
444	Stone 11156	7.0	...	20	54	13.41	123	21	6.5	5	0.78
445	Stone 11175	7.8	...	20	56	1.45	142	21	22.1	5	0.76
446	Stone 11186	7.3	...	20	57	44.24	127	41	30.7	2	0.78
447	Stone 11191	7.5	...	20	58	12.51	138	59	25.7	4	0.83
448	23 Capricorni θ	4.3	...	20	59	22.11	107	41	50.2	20	0.73
449	... ..	8.0	1	21	0	13.05	150	59	40.0	1	0.79
450	Stone 11227	6.8	...	21	1	58.69	134	40	55.2	5	0.79
451	Taylor 9809	5.7	...	21	5	33.65	129	54	2.0	5	0.75
452	Taylor 9843	6.6	...	21	9	53.94	139	12	11.1	5	0.75
453	Taylor 9889	6.7	...	21	14	52.11	119	39	40.8	5	0.76
454	33 Capricorni	5.7	...	21	17	31.27	111	20	51.9	5	0.76
455	Stone 11367	7.0	...	21	21	39.57	152	40	34.0	5	0.77

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
421	...	+ 4.0039	- 0.0280	...	- 11.510	- 0.474	...	...
422	Taylor 9415 ...	+ 3.8643	- 0.0235	...	- 11.593	- 0.456	...	...
423	Stone 10939 ...	+ 3.6848	- 0.0184	...	- 11.771	- 0.431	...	...
424	Taylor 9464 ...	+ 3.5193	- 0.0141	...	- 11.977	- 0.408	...	...
425	R. P. L. 143 ...	- 8.5987	- 1.2839	...	- 11.998	+ 1.010	...	...
426	2 Delphini ε ...	+ 2.8664	- 0.0013	- 0.001	- 12.042	- 0.330	+ 0.02	2642
427	Stone 11003 ...	+ 3.8492	- 0.0251	...	- 12.374	- 0.438	...	...
428	Taylor 9519 ...	+ 4.0310	- 0.0324	...	- 12.454	- 0.457	...	...
429	Taylor 9544 ...	+ 3.9458	- 0.0294	...	- 12.566	- 0.445	...	...
430	Taylor 9561 ...	+ 3.8808	- 0.0255	...	- 12.704	- 0.428	...	...
431	...	+ 3.8376	- 0.0239	...	- 12.732	- 0.429	...	...
432	Taylor 9573 ...	+ 4.1458	- 0.0390	...	- 12.847	- 0.460	...	...
433	2 Aquarii ε ...	+ 3.2506	- 0.0084	- 0.000	- 12.979	- 0.356	+ 0.03	2681
434	...	+ 3.9933	- 0.0330	...	- 13.006	- 0.439	...	...
435	Taylor 9602 ...	+ 3.5722	- 0.0174	...	- 13.046	- 0.391	...	...
436	Stone 11081 ...	+ 3.9000	- 0.0321	...	- 13.156	- 0.431	...	...
437	Stone 11091 ...	+ 4.3675	- 0.0517	...	- 13.201	- 0.475	...	...
438	...	+ 4.1030	- 0.0387	...	- 13.247	- 0.444	...	...
439	Stone 11103 ...	+ 4.3151	- 0.0495	...	- 13.303	- 0.466	...	...
440	Stone 11115 ...	+ 3.6107	- 0.0192	...	- 13.360	- 0.388	...	...
441	Stone 11120 ...	+ 4.5302	- 0.0620	...	- 13.380	- 0.488	...	...
442	...	+ 3.8673	- 0.0301	...	- 13.711	- 0.407	...	...
443	Stone 11150 ...	+ 3.8646	- 0.0302	...	- 13.777	- 0.405	...	...
444	Stone 11156 ...	+ 3.7100	- 0.0240	...	- 13.819	- 0.387	...	...
445	Stone 11175 ...	+ 4.3183	- 0.0539	...	- 13.932	- 0.448	...	...
446	Stone 11186 ...	+ 3.8100	- 0.0288	...	- 14.039	- 0.392	...	...
447	Stone 11191 ...	+ 4.1679	- 0.0464	...	- 14.069	- 0.429	...	...
448	23 Capricorni 0 ...	+ 3.3748	- 0.0128	+ 0.004	- 14.141	- 0.344	+ 0.05	2733
449	...	+ 4.7754	- 0.0859	...	- 14.194	- 0.488	...	...
450	Stone 11227 ...	+ 3.9991	- 0.0388	...	- 14.302	- 0.404	...	...
451	Taylor 9809 ...	+ 3.8433	- 0.0320	...	- 14.521	- 0.382	...	...
452	Taylor 9843 ...	+ 4.1198	- 0.0480	...	- 14.779	- 0.402	...	...
453	Taylor 9889 ...	+ 3.5747	- 0.0217	...	- 15.070	- 0.839	...	...
454	33 Capricorni ...	+ 3.4126	- 0.0154	- 0.003	- 15.221	- 0.318	+ 0.12	2778
455	Stone 11367 ...	+ 4.7211	- 0.0977	...	- 15.456	- 0.434	...	...

Mean Positions of Stars for 1883, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
456	R. P. L. 149	7.5	...	21	22	44.14	3	26	56.8	2	0.69
457	Stone 11890	6.0	...	21	25	48.27	135	21	53.9	5	0.75
458	Stone 11408	6.3	...	21	28	41.51	155	20	49.0	5	0.76
459	Stone 11428	6.5	...	21	32	3.73	124	12	14.8	5	0.75
460	Stone 11434	6.7	...	21	32	25.86	133	39	32.0	2	0.60
461	Taylor 10073	7.0	...	21	36	6.41	146	0	23.7	5	0.75
462	Stone 11470	7.3	...	21	37	46.37	128	58	35.3	3	0.71
463	8 Pegasi ε	2.4	...	21	38	26.36	80	39	38.6	20	0.82
464	Taylor 10109	5.8	...	21	40	38.78	137	50	3.2	5	0.75
465	Taylor 10164	6.5	...	21	48	14.60	143	0	53.8	5	0.75
466	Taylor 10172	5.8	...	21	49	19.96	127	48	27.0	5	0.75
467	Stone 11555	6.7	...	21	51	15.87	134	37	5.7	5	0.79
468	... ..	8.3	2	21	52	5.53	132	36	2.3	3	0.70
469	Taylor 10192	5.8	...	21	52	13.27	128	57	12.0	5	0.81
470	Stone 11574	6.9	...	21	53	59.54	127	6	56.5	5	0.76
471	Taylor 10232	6.1	...	21	57	57.30	117	23	18.1	6	0.75
472	Stone 11601	6.9	...	21	58	48.87	134	31	59.0	2	0.70
473	34 Aquarii α	3.2	...	21	59	46.40	90	53	17.0	21	0.85
474	Stone 11610	8.0	...	22	0	9.06	120	11	10.3	5	0.76
475	43 Aquarii θ	4.3	...	22	10	39.50	98	21	56.3	23	0.84
476	48 Aquarii γ	4.1	...	22	15	36.71	91	58	34.3	10	0.75
477	73 Aquarii λ	3.8	...	22	46	30.49	98	12	6.6	15	0.83
478	54 Pegasi α (<i>Markab</i>)	2.6	...	22	58	55.91	75	25	27.9	11	0.85
479	6 Piscium γ	3.8	..	23	11	5.91	87	21	24.5	8	0.92
480	R. P. L. 158	5.7	...	23	27	49.68	3	20	16.9	10	0.83

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
456	R. P. L. 149 ...	- 10'9818	- 3'1234	...	- 15'515	+ 1'022	...	...
457	Stone 11390 ...	+ 3'9161	- 0'0416	...	- 15'684	- 0'350	...	...
458	Stone 11403 ...	+ 4'8588	- 0'1166	...	- 15'840	- 0'430	...	...
459	Stone 11428 ...	+ 3'6190	- 0'0265	...	- 16'019	- 0'312	...	...
460	Stone 11434 ...	+ 3'8382	- 0'0389	...	- 16'038	- 0'330	...	...
461	Taylor 10073 ...	+ 4'2368	- 0'0679	...	- 16'230	- 0'357	..	...
462	Stone 11470 ...	+ 3'7012	- 0'0323	...	- 16'315	- 0'308	...	...
463	8 Pegasi ϵ ...	+ 2'9451	- 0'0005	+ 0'001	- 16'348	- 0'242	- 0'01	2835
464	Taylor 10109 ...	+ 3'9157	- 0'0466	...	- 16'459	- 0'320	...	...
465	Taylor 10164 ...	+ 4'0375	- 0'0588	...	- 16'830	- 0'315	...	...
466	Taylor 10172 ...	+ 3'6322	- 0'0309	...	- 16'881	- 0'280	...	...
467	Stone 11555 ...	+ 3'7749	- 0'0407	...	- 16'973	- 0'287	...	...
468	... ..	+ 3'7234	- 0'0375	...	- 17'010	- 0'282	...	...
469	Taylor 10192 ...	+ 3'6442	- 0'0323	...	- 17'017	- 0'275	...	...
470	Stone 11574 ...	+ 3'6009	- 0'0300	...	- 17'099	- 0'269	...	...
471	Taylor 10232 ...	+ 3'4240	- 0'0204	...	- 17'277	- 0'248	...	...
472	Stone 11601 ...	+ 3'7359	- 0'0405	...	- 17'315	- 0'269	...	...
473	34 Aquarii α ...	+ 3'0828	- 0'0041	- 0'001	- 17'358	- 0'219	- 0'00	2890
474	Stone 11610 ..	+ 3'4407	- 0'0228	...	- 17'375	- 0'245	...	...
475	43 Aquarii θ ...	+ 3'1626	- 0'0075	+ 0'006	- 17'814	- 0'205	+ 0'02	2929
476	48 Aquarii γ ...	+ 3'0927	- 0'0042	+ 0'007	- 18'006	- 0'191	- 0'02	2943
477	73 Aquarii λ ...	+ 3'1331	- 0'0063	- 0'002	- 19'032	- 0'137	- 0'04	3019
478	54 Pegasi α ...	+ 2'9808	+ 0'0056	+ 0'003	- 19'346	- 0'107	+ 0'03	3050
479	6 Piscium γ ...	+ 3'0592	+ 0'0005	+ 0'049	- 19'599	- 0'087	- 0'02	3082
480	R. P. L. 158 ...	- 0'1339	- 0'5501	+ 0'084	- 19'857	+ 0'011	+ 0'00	3147

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1884

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.
1 <i>8 Ceti</i>						Dec. 11	...	0 51 42.18	2	1 35 54.5	M
Jan. 2	...	0 13 31.07	...	99 28 1.1	M	13	...	51 41.56	3	35 55.1	M
Nov. 14	...	13 30.93	...	28 1.6	R	23	...	51 41.40	3	35 54.5	R
15	...	13 30.93	...	28 1.9	R	26	...	51 42.05	3	35 52.7	R
17	...	13 30.96	...	28 2.0	R	27	...	51 41.33	3	35 54.3	R
22	...	13 30.94	...	28 0.4	R	29	...	51 42.22	3	35 54.5	M
29	...	13 31.05	...	28 1.7	R	31	...	51 41.98	3	35 54.4	M
Dec. 1	...	13 31.04	...	28 1.5	R	R. P. L. 10—s.p.					
3	...	13 31.16	...	28 2.5	M	Apl. 24	...	0 51 41.15	3	1 35 55.8	R
4	...	13 31.02	...	28 3.1	M	7 <i>2 Ursæ Minoris.</i>					
11	...	13 30.97	...	28 2.6	M	Jan. 2	...	0 53 5.22	3	4 21 55.9	M
12	...	13 31.04	...	28 3.2	M	8 <i>R. P. L. 14—s.p.</i>					
23	...	13 30.99	...	28 0.1	R	Apl. 17	...	0 56 46.76	3	3 28 23.5	R
24	...	13 31.05	...	28 1.3	R	9 <i>43 Andromedæ β, Mirach.</i>					
2 <i>12 Ceti.</i>						Jan. 5	...	1 3 14.32	...	54 59 40.1	M
Jan. 2	...	0 24 7.14	...	94 35 54.4	M	7	...	3 14.39	...	59 40.6	M
8	...	24 7.16	...	35 55.5	M	Nov. 15	...	3 14.28	...	59 41.1	R
3 <i>16 Ceti β</i>						17	...	3 14.22	...	59 41.5	R
Jan. 1	...	0 37 46.10	...	108 37 25.1	M	18	...	3 14.20	...	59 43.2	R
2	...	37 45.87	...	37 26.5	M	26	...	3 14.31	...	59 40.3	R
4 <i>58 Piscium.</i>						29	...	3 14.24	...	59 40.5	R
Nov. 15	...	0 40 58.35	...	78 39 32.8	R	Dec. 1	...	3 14.27	...	59 39.9	R
5 <i>63 Piscium δ</i>						29	...	3 14.33	...	59 42.2	M
Jan. 2	...	0 42 39.68	...	83 2 47.6	M	30	...	3 14.26	...	59 40.6	M
3	...	42 39.72	...	2 48.0	M	31	...	3 14.30	...	59 39.7	M
5	...	42 39.91	...	2 47.2	M	10 <i>R. P. L. 18.</i>					
6 <i>R. P. L. 10.</i>						Nov. 17	...	1 13 54.77	3	2 2 32.0	R
Jan. 3	...	0 51 41.18	2	1 35 54.6	M	18	...	13 54.15	3	2 35.8	R
Oct. 28	...	51 42.08	3	35 53.6	M	11 <i>1 Ursæ Minoris α, Polaris.</i>					
Nov. 17	...	51 44.22	3	35 55.0	R	Jan. 8	...	1 16 13.52	3	1 18 35.5	M
18	...	51 43.31	3	35 56.6	R	9	...	16 13.39	3	18 33.6	M
26	...	51 40.13	3	35 53.3	R	Nov. 26	...	16 12.52	3	18 33.5	R
29	...	51 41.05	3	35 55.2	R						
Dec. 3	...	51 41.29	3	35 54.4	M						
4	...	51 41.98	3	35 54.4	M						

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.
1 Ursæ Minoris α, Polaris—s.p.						18 R. P. L. 26.					
Apl. 22	...	1 16 13.04	3	1 18 36.2	R	Jan. 2	...	2 27 44.04	3	3 27 32.5	M
24	...	16 13.62	3	18 38.6	R						
25	...	16 12.01	3	18 37.6	R						
12 99 Piscium η						19 43 Arietis σ					
Jan. 1	...	1 25 16.45	...	75 15 8.9	M	Jan. 5	...	2 45 5.34	...	75 23 45.9	M
						7	...	45 5.29	...	23 47.5	M
						8	...	45 5.41	...	23 46.7	M
						Nov. 18	...	45 5.28	...	23 46.8	R
						22	...	45 5.37	...	23 45.7	R
						26	...	45 5.31	...	23 45.7	R
						Dec. 3	...	45 5.21	...	23 46.3	M
						4	...	45 5.26	...	23 45.9	M
						11	...	45 5.32	...	23 46.1	M
						12	...	45 5.26	...	23 47.3	M
						23	...	45 5.27	...	23 47.0	R
						24	...	45 5.26	...	23 45.4	R
						26	...	45 5.25	...	23 47.1	R
13 Lalande 2806.						20 Stone 1223.					
Dec. 23	8.5	1 26 36.10	...	77 26 5.7	R	Jan. 2	...	2 52 29.74	...	154 28 29.6	M
24	8.5	26 36.27	...	26 6.3	R	8	...	52 29.79	...	28 30.9	M
26	8.5	26 36.24	...	26 6.6	R						
27	8.5	26 36.24	...	26 6.8	R						
29	8.5	26 36.23	...	26 9.3	M						
14 110 Piscium σ						21 92 Ceti α, Menkar.					
Nov. 18	...	1 39 16.23	...	81 25 35.4	R	Jan. 9	...	2 56 12.98	...	86 21 59.3	M
22	...	39 16.05	...	25 34.4	R	10	...	56 12.98	...	21 59.6	M
26	...	39 16.08	...	25 34.8	R						
29	...	39 16.12	...	25 34.5	R						
Dec. 1	...	39 16.11	...	25 33.7	R						
3	...	39 16.12	...	25 35.7	M						
4	...	39 16.12	...	25 36.3	M						
11	...	39 16.06	...	25 36.7	M						
12	...	39 16.03	...	25 36.2	M						
23	...	39 16.10	...	25 33.7	R						
15 8 Arietis ι						22 57 Arietis δ					
Jan. 7	...	1 51 0.69	...	72 44 56.9	M	Jan. 5	...	3 4 59.71	...	70 42 45.8	M
8	...	51 0.71	...	44 57.9	M	10	...	4 59.80	...	42 45.6	M
						21	...	4 59.86	...	42 46.9	M
						22	...	4 59.79	...	42 46.7	M
						23	...	4 59.78	...	42 46.5	M
						24	...	4 59.68	...	42 46.5	M
						Dec. 3	...	4 59.64	...	42 47.2	M
						4	...	4 59.69	...	42 48.3	M
16 13 Arietis α						23 R. P. L. 33.—s.p.					
Jan. 1	...	2 0 37.98	...	67 5 11.7	M	June 21	...	3 5 1.34	2	5 30 11.9	M
2	...	0 38.10	...	5 13.3	M						
17 67 Ceti.											
Jan. 1	...	2 11 11.88	...	96 57 26.9	M						
2	...	11 11.86	...	57 25.9	M						
3	...	11 11.83	...	57 26.3	M						
5	...	11 11.81	...	57 27.4	M						

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.
24 1 <i>Tauri</i> α , Var. 5.						31 19 <i>Orionis</i> β , Rigel.					
Jan. 2	...	3 18 34.23	...	81 22 48.8	M	Jan. 9	...	5 8 57.81	...	98 20 13.8	M
7	...	18 34.33	...	22 40.5	M	32 112 <i>Tauri</i> β					
9	...	18 34.28	...	22 49.8	M	Jan. 8	...	5 18 57.45	...	61 20 34.1	M
21	...	18 34.13	...	22 49.6	M	33 R. P. L. 40.					
22	...	18 34.29	5	22 47.4	M	Jan. 9	...	5 24 55.15	3	4 51 57.1	M
23	...	18 34.36	1	22 48.0	M	21	...	24 56.66	3	51 56.5	M
25 R. P. L. 34—s.p.						22	...	24 55.66	3	51 55.9	M
June 20	...	3 28 39.17	3	3 43 19.7	M	34 34 <i>Orionis</i> δ , Var. 1.					
24	...	28 38.73	3	43 18.0	R	Jan. 24	...	5 26 4.84	...	90 23 5.4	M
28	...	28 40.53	3	43 17.3	R	28	...	26 4.88	...	23 8.9	M
26 25 <i>Tauri</i> η , Alcyone.						35 R. P. L. 41.					
Jan. 2	...	3 40 35.36	...	66 15 19.2	M	Jan. 23	...	5 20 32.98	3	4 44 55.9	M
5	...	40 35.29	...	15 18.5	M	36 46 <i>Orionis</i> ϵ					
27 34 <i>Eridani</i> γ^1						Jan. 24	...	5 30 19.76	...	91 16 38.9	M
Jan. 7	...	3 52 36.98	...	103 50 23.5	M	37 58 <i>Orionis</i> α , Var. 2, Betelgeux.					
8	...	52 37.12	...	50 23.3	M	Jan. 21	...	5 48 53.49	...	82 36 58.5	M
9	...	52 37.05	...	50 24.1	M	22	...	48 53.46	...	36 57.3	M
10	...	52 36.91	...	50 23.5	M	23	...	48 53.42	...	36 57.2	M
21	...	52 37.11	...	50 21.3	M	24	...	48 53.37	...	36 57.2	M
22	...	52 36.96	...	50 23.0	M	28	...	48 53.39	...	36 58.4	M
28 R. P. L. 35.						30	...	48 53.47	...	36 56.7	M
Jan. 7	...	4 0 29.79	3	4 45 6.5	M	31	...	48 53.42	...	36 56.8	M
9	...	0 31.11	3	45 10.1	M	Feb. 2	...	48 53.06	...	36 56.5	R
21	...	0 31.88	3	45 6.6	M	5	...	48 53.54	...	36 56.5	R
22	...	0 30.43	3	45 8.6	M	38 R. P. L. 43.					
29 74 <i>Tauri</i> ϵ						Jan. 21	...	6 0 56.40	3	3 14 15.9	M
Jan. 7	...	4 21 50.62	...	71 4 39.7	M						
8	...	21 50.42	...	4 42.0	M						
9	...	21 50.46	...	4 41.0	M						
30 87 <i>Tauri</i> α , Aldebaran.											
Jan. 7	...	4 29 15.73	...	73 43 28.9	M						
9	...	29 15.79	...	43 29.3	M						
21	...	29 15.83	...	43 30.8	M						

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R. P. L. 43 s.p.						47 R. P. L. 45—s.p.					
June 21	...	6 0 54.75	3	3 14 16.9	M	Sep. 13	...	7 39 55.27	3	1 1 32.9	R
July 18	...	0 55.39	3	14 19.9	M	16	...	39 54.36	3	1 34.6	M
39 13 Geminorum μ						Oct. 3	...	39 55.84	3	1 32.8	M
Jan. 30	...	6 15 56.51	...	67 25 42.8	M	6	...	39 53.74	3	1 31.8	M
40 Anon.						7	...	39 52.74	2	1 32.0	M
Jan. 22	8.0	6 36 52.07	4	130 22 0.1	M	8	...	39 53.74	3	1 33.3	M
41 51 Cephei (Hev.).						9	...	39 54.11	3	1 33.7	M
Jan. 21	...	6 45 47.62	3	2 46 28.6	M	10	...	39 54.63	3	1 32.8	M
23	...	45 46.58	3	46 28.3	M	48 ξ Argús.					
24	...	45 47.16	3	46 28.5	M	Jan. 31	...	7 44 25.03	...	114 34 8.3	M
26	...	45 46.91	3	46 29.8	M	Feb. 2	...	44 24.89	...	34 9.6	R
51 Cephei (Hev.)—s.p.						5	...	44 24.89	...	34 8.7	R
Aug. 7	...	6 45 46.47	3	2 46 33.4	R	7	...	44 24.82	...	34 7.0	R
13	...	45 46.46	3	46 32.5	R	13	...	44 24.89	...	34 8.6	R
19	...	45 46.46	3	46 27.0	R	16	...	44 24.82	...	34 9.5	R
20	...	45 45.95	2	46 31.4	R	19	...	44 24.92	...	34 9.1	R
42 Anon.						22	...	44 24.80	...	34 8.8	R
Jan. 30	10.0	6 52 58.09	6	152 55 52.5	M	26	...	44 24.70	...	34 8.4	R
43 21 Canis Majoris ϵ						29	...	44 24.72	...	34 8.3	R
Jan. 28	...	6 54 44.01	...	118 48 53.4	M	49 R. P. L. 48—s.p.					
44 23 Canis Majoris γ						Sep. 10	...	7 47 5.92	3	3 58 16.4	R
Jan. 22	...	6 58 30.73	...	105 27 44.5	M	11	...	47 5.41	3	58 15.9	R
45 Anon.						24	...	47 5.80	3	58 15.4	M
Jan. 24	9.0	7 1 47.71	...	60 51 51.2	M	Oct. 4	...	47 5.94	3	58 15.1	M
46 10 Canis Minoris α, Procyon.						50 R. P. L. 49.					
Jan. 30	...	7 33 13.74	...	84 28 42.5	M	Jan. 30	...	7 49 0.68	3	5 36 38.9	M
						31	...	49 0.52	3	36 38.7	M
						R. P. L. 49—s.p.					
						Aug. 18	...	7 48 59.77	3	5 36 35.9	R
						Oct. 11	...	49 0.99	3	36 41.7	M
						13	...	49 0.91	3	36 42.9	M
						51 15 Argús ρ					
						Jan. 31	...	8 2 36.18	...	113 58 14.3	M
						Feb. 2	...	2 36.08	...	58 14.2	R
						5	...	2 36.16	...	58 13.4	R

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Feb. 7	...	8 2 36.10	...	113 58 12.7	R	59 <i>76 Cancri κ</i>					
9	...	2 36.15	...	58 12.3	R	Feb. 9	...	9 1 27.81	...	78 51 57.0	R
13	...	2 36.15	...	58 18.7	R	60 <i>83 Cancri.</i>					
16	...	2 36.19	...	58 18.4	R	Feb. 13	...	9 12 30.47	...	71 48 10.2	R
19	...	2 36.11	...	58 18.8	R	16	...	12 30.46	...	48 11.7	R
22	...	2 36.10	...	58 14.0	R	61 <i>R. P. L. 62—s.p.</i>					
52 <i>R. P. L. 53—s.p.</i>						Oct. 1	...	9 21 48.85	3	2 21 41.0	M
Sep. 10	...	8 20 54.38	3	4 32 26.5	R	3	...	21 49.26	3	21 47.1	M
24	...	20 55.95	3	32 25.6	M	4	...	21 48.82	3	21 46.1	M
53 <i>33 Cancri η</i>						8	...	21 48.19	3	21 47.0	M
Feb. 5	...	8 26 0.03	...	69 9 55.5	R	62 <i>30 Hydræ α, Var. 2.</i>					
7	...	26 0.14	...	9 55.3	R	Sep. 18	...	9 21 53.17	...	98 9 22.7	R
54 <i>R. P. L. 55—s.p.</i>						19	...	21 53.33	...	9 22.0	R
Oct. 2	...	8 31 44.57	3	5 41 4.5	M	63 <i>2 Leonis ω</i>					
3	...	31 45.98	3	41 2.9	M	Feb. 9	...	9 22 14.70	...	80 26 16.3	R
55 <i>11 Hydræ ε</i>						64 <i>Lacaille 3980.</i>					
Feb. 7	...	8 40 37.96	...	88 9 21.2	R	Feb. 7	9.0	9 35 5.72	...	148 39 5.2	R
9	...	40 37.95	...	9 22.4	R	65 <i>R. P. L. 69—s.p.</i>					
56 <i>R. P. L. 60.</i>						Oct. 1	...	9 39 8.47	3	2 52 12.1	M
Feb. 2	...	8 50 57.75	3	5 21 21.7	R	6	...	39 10.78	3	52 12.0	M
5	...	50 57.72	3	21 23.2	R	66 <i>17 Leonis ε</i>					
<i>R. P. L. 60—s.p.</i>						Feb. 22	...	9 39 16.20	...	65 41 32.4	R
Sep. 10	...	8 50 57.40	3	5 21 22.8	R	26	...	39 16.08	...	41 32.1	R
24	...	50 57.17	3	21 24.4	M	67 <i>R. P. L. 70.</i>					
Oct. 3	...	50 57.70	3	21 20.6	M	Feb. 7	...	9 49 50.02	3	5 31 24.3	R
57 <i>65 Cancri α</i>						9	...	49 49.98	3	31 25.2	R
Feb. 9	...	8 52 8.54	...	77 41 38.1	R	18	...	49 49.59	3	31 23.0	R
58 <i>Anon.</i>						16	...	49 49.76	3	31 23.2	R
Feb. 7	9.0	8 54 40.51	...	182 59 53.3	R						

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<i>R. P. L. 70.—s.p.</i>						<i>74 Yarnall 4465.</i>					
Sep. 24	...	9 49 50.82	3	5 31 27.2	M	Apl. 28	5.6	10 37 6.32	...	66 12 16.4	R
68 <i>32 Leonis α, Regulus.</i>						29	5.6	37 6.41	...	12 15.5	R
Feb. 26	...	10 2 11.67	...	77 27 56.7	R	30	5.6	37 6.43	4	12 16.0	R
29	...	2 11.60	...	27 54.9	R	May 1	5.6	37 6.35	...	12 17.5	M
Apl. 16	...	2 11.56	...	27 55.4	R	2	5.6	37 6.45	...	12 17.7	M
69 <i>R. P. L. 72.</i>						75 <i>Anon.</i>					
Apl. 17	...	10 12 36.33	3	5 9 35.4	R	Apl. 16	9.0	10 30 7.37	...	65 48 41.5	R
18	...	12 36.61	3	9 35.1	R	17	9.0	30 7.35	...	48 41.3	R
21	...	12 36.46	3	9 36.1	R	22	9.0	30 6.80	...	48 41.2	R
22	...	12 37.30	3	9 35.4	R	24	9.0	30 7.08	...	48 39.4	R
<i>R. P. L. 72.—s.p.</i>						76 <i>Anon.</i>					
Sep. 24	...	10 12 36.87	3	5 9 36.9	M	Apl. 18	9.0	10 41 36.80	...	66 3 1.2	R
Oct. 1	...	12 36.66	3	9 37.1	M	21	9.0	41 37.02	...	3 1.0	R
70 <i>41 Leonis γ¹</i>						23	9.0	41 36.81	...	2 59.8	R
Feb. 29	...	10 13 34.54	...	69 34 19.5	R	25	9.0	41 36.86	...	2 59.7	R
Apl. 16	...	13 34.56	...	34 19.6	R	26	9.0	41 36.83	...	2 59.7	R
19	...	13 34.56	...	34 19.0	R	77 <i>53 Leonis l.</i>					
71 <i>W. B. E. X. 336.</i>						Apl. 17	...	10 43 9.55	...	78 50 20.9	R
Apl. 16	9.0	10 21 7.84	...	92 27 41.8	R	78 <i>63 Leonis χ</i>					
18	9.0	21 7.69	...	27 40.8	R	Apl. 16	...	10 59 1.97	...	82 2 12.4	R
19	9.0	21 7.81	...	27 41.4	R	17	...	59 1.98	...	2 12.5	R
22	9.0	21 7.59	...	27 41.0	R	79 <i>R. P. L. 79.—s.p.</i>					
24	9.0	21 7.60	...	27 41.2	R	Oct. 1	...	11 0 33.92	3	1 43 49.0	M
72 <i>Anon.</i>						2	...	0 33.57	3	43 47.4	M
Apl. 17	7.5	10 21 42.37	...	92 55 39.1	R	4	...	0 33.03	2	43 40.1	M
21	7.5	21 42.17	...	55 39.6	R	6	...	0 32.54	3	43 40.6	M
23	...	21 42.02	...	55 38.8	R	8	...	0 31.96	3	43 48.6	M
25	7.5	21 42.27	...	55 38.4	R	9	...	0 32.86	3	43 48.6	M
26	7.5	21 42.29	...	55 38.9	R	10	...	0 33.41	3	43 47.0	M
73 <i>47 Leonis ρ</i>						80 <i>68 Leonis δ</i>					
Apl. 17	...	10 26 42.13	...	80 5 47.6	R	Apl. 18	...	11 7 56.37	...	68 50 27.6	R
						19	...	7 56.27	...	50 27.8	R

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
81 <i>84 Leonis</i> τ									
Apl. 22	...	11	21	58.26	...	86	30	17.4	R
23	...		21	58.25	...		30	16.4	R
24	...		21	58.25	...		30	15.9	R
25	...		21	58.24	...		30	16.5	R
26	...		21	58.27	...		30	16.4	R
28	...		21	58.26	...		30	16.3	R
29	...		21	58.27	...		30	16.3	R
30	...		21	58.24	...		30	17.8	R
May 1	...		21	58.32	...		30	19.3	M
2	...		21	58.29	...		30	18.8	M
82 <i>94 Leonis</i> β									
Apl. 18	...	11	43	8.59	...	74	46	45.7	R
83 <i>R. P. L. 87—s.p.</i>									
Oct. 27	...	11	53	84.38	3	2	21	29.9	M
28	...		53	84.78	3		21	31.2	M
Nov. 26	...		53	35.17	3		21	35.3	R
29	...		53	34.33	3		21	34.0	R
Dec. 1	...		53	34.36	3		21	35.1	R
84 <i>8 Virginis</i> π									
Apl. 22	...	11	54	55.73	...	82	44	18.8	R
23	...		54	55.70	...		44	17.8	R
24	...		54	55.70	...		44	16.7	R
25	...		54	55.77	...		44	17.3	R
26	...		54	55.72	...		44	17.4	R
28	...		54	55.68	...		44	18.8	R
29	...		54	55.71	...		44	17.8	R
30	...		54	55.65	...		44	18.2	R
May 1	...		54	55.69	...		44	19.9	M
2	...		54	55.74	...		44	18.5	M
85 <i>Anon.</i>									
Apl. 26	9.0	11	58	39.53	...	86	44	0.8	R
28	9.0		58	39.53	...		44	8.1	R
29	9.0		58	39.66	...		44	2.2	R
30	9.0		58	39.71	...		44	2.6	R
May 1	9.0		58	39.67	...		44	1.9	M
86 <i>R. P. L. 89.</i>									
Apl. 16	...	11	58	51.10	3	3	46	10.4	R
17	...		58	53.71	3		46	9.7	R
18	...		58	53.98	3		46	10.2	R
19	...		58	53.72	3		46	11.6	R
<i>R. P. L. 89—s.p.</i>									
Nov. 17	...	11	58	48.49	3	3	46	18.9	R
18	...		58	48.12	2		46	10.4	R
87 <i>2 Corvi</i> ϵ									
Apl. 18	...	12	4	9.43	...	111	58	25.6	R
88 <i>R. P. L. 92.</i>									
Apl. 17	...	12	13	27.27	3	2	55	6.8	R
<i>R. P. L. 92—s.p.</i>									
Oct. 28	...	12	13	27.27	3	2	55	8.3	M
Nov. 26	...		13	27.98	3		55	12.2	R
89 <i>15 Virginis</i> η									
Apl. 16	...	12	13	58.22	...	90	1	20.0	R
19	...		13	58.23	...		1	20.4	R
21	...		13	58.19	...		1	19.0	R
90 <i>R. P. L. 93.</i>									
Apl. 22	...	12	14	20.80	3	1	39	21.6	R
<i>R. P. L. 93—s.p.</i>									
Nov. 18	...	12	14	22.58	3	1	39	28.1	R
91 <i>Lalande 23300.</i>									
Apl. 16	8.7	12	21	50.01	...	91	44	16.0	R
17	8.7		21	49.93	...		44	15.3	R
18	8.7		21	49.82	...		44	15.9	R
19	8.7		21	49.75	...		44	16.0	R
21	8.7		21	49.74	...		44	16.2	R

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.
92	<i>R. P. L. 97—s.p.</i>					<i>R. P. L. 103—s.p.</i>					
Oct. 28	...	12 37 34.07	3	5 43 8.3	M	Jan. 2	...	13 19 21.20	3	4 38 24.8	M
						3	...	19 20.55	3	38 20.3	M
93	<i>R. P. L. 99.</i>					Nov. 29	...	19 19.65	3	38 19.2	R
Apl. 17	...	12 48 16.79	3	5 57 22.4	R	Dec. 1	...	19 21.47	3	38 22.4	R
18	...	48 16.62	3	57 22.5	R	3	...	19 18.61	3	38 20.4	M
						4	...	19 20.96	3	38 22.9	M
						11	...	19 20.28	3	38 20.3	M
94	<i>47 Virginis ε, Vindemiatrix.</i>					99	<i>8 Bootis η</i>				
Apl. 22	...	12 56 24.18	...	78 25 0.7	R	Apl. 21	...	13 49 9.81	...	71 1 13.0	R
23	...	56 24.21	...	24 59.9	R						
24	...	56 24.19	...	24 58.7	R	100	<i>93 Virginis τ</i>				
25	...	56 24.15	...	24 59.0	R	June 21	...	13 55 44.66	...	87 53 35.1	M
26	...	56 24.16	...	24 59.8	R	24	...	55 44.73	...	53 34.9	R
28	...	56 24.21	...	24 59.6	R						
29	...	56 24.17	...	24 59.4	R	101	<i>R. P. L. 108.</i>				
30	...	56 24.26	...	24 59.5	R	June 21	...	14 1 20.48	2	3 41 9.6	M
May 1	...	56 24.13	...	25 1.5	M	28	...	1 22.89	3	41 10.7	R
2	...	56 24.12	...	25 1.7	M						
95	<i>R. P. L. 100—s.p.</i>					102	<i>16 Bootis α, Arcturus.</i>				
Dec. 3	...	13 0 23.49	3	3 29 27.2	M	June 20	...	14 10 22.30	...	70 12 44.0	M
4	...	0 23.39	3	29 28.6	M	24	...	10 22.18	...	12 46.1	R
11	...	0 23.44	3	29 31.3	M	25	...	10 22.15	...	12 46.6	R
12	...	0 23.60	3	29 33.4	M						
23	...	0 23.18	3	29 29.2	R	103	<i>25 Bootis ρ</i>				
						June 20	...	14 26 49.78	...	53 7 5.7	M
96	<i>R. P. L. 101—s.p.</i>					104	<i>36 Bootis ε², Mirac.</i>				
Jan. 2	...	13 6 56.98	3	1 43 41.7	M	June 20	...	14 39 55.23	...	62 26 8.1	M
3	...	6 57.55	3	43 39.9	M	21	...	39 55.13	...	26 10.4	M
Dec. 26	...	6 57.81	3	43 42.8	R	23	...	39 55.18	...	26 11.0	R
27	...	6 56.80	3	43 41.6	R	24	...	39 55.18	...	26 8.0	R
						105	<i>9 Libræ α²</i>				
97	<i>67 Virginis α, Spica.</i>					June 21	...	14 44 27.86	...	105 33 28.6	M
Apl. 21	...	13 19 4.82	...	100 33 18.2	R	25	...	44 27.79	...	33 28.2	R
						26	...	44 27.78	...	33 26.9	M
98	<i>R. P. L. 103.</i>										
Apl. 26	...	13 19 18.47	3	4 38 19.0	R						
28	...	19 19.76	3	38 18.8	R						

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884.	No. of Wires.	Mean Polar Distance 1884.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884.	No. of Wires.	Mean Polar Distance 1884.	Observer.
		h. m. s.		° ' "				h. m. s.		° ' "	
106 <i>T Trianguli Australis, Var.</i>						112 <i>24 Serpentis a</i>					
June 24	7.0	14 58 57.30	...	158 16 20.3	R	June 21	...	15 38 33.31	...	83 12 30.4	M
25	...	58 57.22	3	16 21.5	R	28	...	38 33.28	...	12 31.2	R
107 <i>R. P. L. 111.</i>						113 <i>R. P. L. 115.</i>					
June 24	...	15 8 26.58	3	5 35 58.8	R	June 20	...	15 45 12.50	3	4 47 32.4	M
28	...	8 27.89	8	36 0.8	R	114 <i>16 Ursæ Minoris ζ</i>					
July 14	...	8 27.02	8	35 58.9	M	June 21	...	15 48 13.52	...	11 50 55.6	M
17	...	8 27.48	8	35 58.1	M	115 <i>8 Scorpis β¹</i>					
18	...	8 26.88	3	35 58.5	M	June 21	...	15 58 41.51	...	109 29 10.9	M
108 <i>27 Libræ β</i>						116 <i>R. P. L. 116.</i>					
June 20	...	15 10 45.85	...	98 57 14.8	M	June 24	...	16 0 34.43	3	4 22 0.4	R
25	...	10 45.82	...	57 14.3	R	117 <i>1 Ophiuchi δ</i>					
26	...	10 45.89	...	57 14.2	R	June 20	...	16 8 15.91	...	93 23 39.0	M
109 <i>Redhill 2293.—s.p.</i>						118 <i>21 Scorpis a, Antares.</i>					
Nov. 29	...	15 11 46.31	3	4 25 39.8	R	June 20	...	16 22 17.68	...	116 10 23.2	M
110 <i>R. P. L. 114.</i>						119 <i>21 Scorpis a, Antares.</i>					
July 14	...	15 15 0.57	3	2 19 23.1	M	21	...	22 17.82	...	10 25.9	M
17	...	14 59.64	8	19 20.8	M						
111 <i>5 Coronæ Borealis α, Alpherat.</i>											
June 26	...	15 29 46.48	...	62 53 34.7	R						
July 14	...	29 46.45	...	53 40.0	M						
18	...	29 46.48	...	53 40.3	M						
19	...	29 46.53	...	53 40.7	M						
22	...	29 46.63	...	53 37.3	M						
23	...	29 46.49	...	53 38.7	M						
24	...	29 46.62	...	53 39.1	M						

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.
119 40 <i>Herculis</i> ζ						127 Stone 9578.					
June 21	...	16 36 54.62	...	58 11 11.0	M	Aug. 21	...	17 28 15.11	...	146 44 40.0	R
28	...	36 54.73	...	11 11.3	R	23	...	28 14.88	...	44 40.7	R
July 14	...	36 54.77	...	11 11.9	M	128 55 <i>Ophiuchi</i> α					
120 22 <i>Ursæ Minoris</i> ε—s.p.						June 20	...	17 29 32.99	...	77 21 17.6	M
Jan. 7	...	16 57 53.10	5	7 46 30.4	M	129 R. P. L. 120.					
121 R. P. L. 118.						June 21	...	17 31 35.22	3	5 17 26.2	M
July 14	...	17 1 48.75	3	5 8 39.2	M	July 18	...	31 35.79	3	17 26.6	M
122 G. Z. C. XVII. 421.						130 Anon.					
Aug. 23	...	17 7 0.73	...	130 55 11.6	R	Sep. 1	7.5	17 34 30.28	...	125 44 21.4	R
123 64 <i>Herculis</i> α, Var. 1.						8	7.5	34 30.40	...	44 21.6	R
July 14	...	17 9 21.44	...	75 28 34.5	M	10	7.5	34 30.35	...	44 22.1	R
17	...	9 21.41	...	28 33.7	M	11	7.5	34 30.28	...	44 22.4	R
18	...	9 21.52	...	28 33.6	M	13	7.5	34 30.40	4	44 24.4	R
124 Anon.						131 60 <i>Ophiuchi</i> β					
Aug. 18	9.0	17 14 42.41	...	126 23 49.7	R	Aug. 18	...	17 37 44.45	...	85 22 58.2	R
20	9.0	14 42.56	...	23 49.2	R	19	...	37 44.44	...	22 58.9	R
21	9.0	14 42.42	...	23 49.3	R	20	...	37 44.52	...	22 57.9	R
23	9.0	14 42.36	...	23 49.1	R	21	...	37 44.45	...	22 58.9	R
26	9.0	14 42.35	4	23 48.5	R	23	...	37 44.50	...	23 0.1	R
125 Taylor 8070.						25	...	37 44.45	...	23 0.8	R
Aug. 20	6.5	17 21 5.37	...	126 40 45.3	R	26	...	37 44.47	...	22 57.9	R
21	6.5	21 5.36	...	40 45.8	R	Sep. 10	...	37 44.49	...	22 57.7	R
23	6.5	21 5.18	...	40 45.8	R	11	...	37 44.48	...	22 57.9	R
26	6.5	21 5.16	...	40 48.6	R	13	...	37 44.58	...	22 59.2	R
Sep. 1	6.5	21 5.07	...	40 46.0	R	132 86 <i>Herculis</i> μ					
126 35 <i>Scorpii</i> λ						July 22	...	17 41 55.12	...	62 12 41.3	M
Aug. 20	...	17 25 44.15	...	127 1 3.0	R	23	...	41 55.23	...	12 37.0	M
25	...	25 44.06	...	1 4.7	R	24	...	41 55.00	...	12 36.9	M
26	...	25 44.12	...	1 4.8	R	25	...	41 54.95	...	12 37.7	M
Sep. 1	...	25 48.86	...	1 2.5	R	133 Anon.					
						July 26	8.5	17 42 56.34	...	143 28 18.1	M
						Aug. 5	8.0	42 50.53	4	28 21.4	R

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884.			No. of Wires.	Mean Polar Distance 1884.			Observer.
h. m. s.									
134 72 Ophiuchi.									
Aug. 18	...	18	1	50.93	...	80	27	5.3	R
19	...		1	50.95	...		27	5.1	R
20	...		1	50.95	...		27	6.1	R
23	...		1	50.99	...		27	5.3	R
25	...		1	50.97	...		27	7.7	R
26	...		1	50.97	...		27	4.8	R
28	...		1	50.99	...		27	7.7	R
Sep. 1	...		1	51.05	...		27	5.0	R
8	...		1	50.97	...		27	4.0	R
10	...		1	50.99	...		27	3.9	R
135 Taylor 8410.									
July 22	...	18	4	38.71	...	113	43	25.9	M
23	...		4	38.71	...		43	24.7	M
26	...		4	38.65	6		43	19.9	M
Aug. 4	...		4	38.63	...		43	23.4	R
5	...		4	38.56	...		43	24.0	R
136 13 Sagittarii μ^1									
July 19	...	18	6	49.47	...	111	5	16.3	M
137 Stone 9951.									
Aug. 7	6.0	18	8	27.43	...	153	55	3.2	R
8	6.0		8	27.48	5		55	3.5	R
12	6.0		8	27.07	...		55	5.2	R
13	6.0		8	27.04	...		55	3.7	R
15	6.0		8	27.27	...		55	4.8	R
138 23 Ursæ Minoris δ —s.p.									
Jan. 21	...	18	9	45.04	3	3	23	27.3	M
22	...		9	43.78	3		23	24.5	M
23	...		9	44.27	3		23	26.9	M
24	...		9	45.05	3		23	24.7	M
28	...		9	44.54	3		23	25.7	M
30	...		9	44.07	3		23	23.1	M
31	...		9	44.75	3		23	22.8	M
Feb. 2	...		9	44.26	3		23	24.8	R
5	...		9	44.13	3		23	23.1	R
139 Taylor 8440.									
July 22	...	18	12	31.91	...	151	32	38.5	M
Aug. 7	...		12	32.37	5		32	40.2	R
8	...		12	32.28	...		32	40.6	R
11	...		12	32.10	...		32	41.1	R
12	...		12	32.09	...		32	40.8	R
140 24 Ursæ Minoris.									
Aug. 18	...	18	13	42.84	3	3	0	33.2	R
19	...		13	44.17	3		0	34.2	R
20	...		13	43.48	3		0	34.6	R
Sep. 11	...		13	43.59	3		0	33.4	R
13	...		13	44.82	3		0	33.2	R
16	...		13	44.78	3		0	31.4	M
24	...		13	43.55	3		0	31.7	M
24 Ursæ Minoris —s.p.									
Jan. 31	...	18	13	42.81	3	3	0	35.7	M</

Separate Results of Madras Meridian Circle Observations in 1884.

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144 <i>Taylor 8520.</i>						150 <i>Anon.</i>					
July 18	6.0	18 25 11.22	...	142 58 27.5	M	Aug. 16	8.0	18 43 52.73	...	125 30 57.0	R
22	6.0	25 11.15	4	58 26.7	M	18	8.0	43 52.98	...	30 56.4	R
Aug. 7	6.0	25 11.52	...	58 26.9	R						
8	6.0	25 11.49	...	58 28.5	R						
145 <i>Stone 10137.</i>						151 <i>10 Lyrae β, Var. 1.</i>					
July 22	6.5	18 31 2.46	5	154 41 41.8	M	July 22	...	18 45 47.76	...	56 46 17.6	M
Aug. 12	6.0	31 2.43	...	44 45.5	R	Aug. 8	...	45 47.82	...	46 17.0	R
13	6.0	31 2.37	...	44 45.6	R	12	...	45 47.60	...	46 16.7	R
16	6.0	31 2.43	...	44 45.5	R	14	...	45 47.64	...	46 17.0	R
18	6.0	31 2.35	...	44 45.0	R						
146 <i>3 Lyrae α, Vega.</i>						152 <i>Anon.</i>					
July 23	...	18 33 0.50	...	51 19 24.8	M	July 22	9.5	18 52 19.19	5	132 56 54.3	M
26	...	33 0.61	...	19 22.9	M	Aug. 18	9.5	52 19.08	...	56 52.9	R
Aug. 4	...	33 0.39	...	19 21.8	R	19	9.5	52 19.02	...	56 50.5	R
5	...	33 0.34	...	19 24.2	R	28	9.5	52 19.18	...	56 53.3	R
7	...	33 0.50	...	19 24.4	R						
8	...	33 0.46	...	19 23.9	R						
147 <i>Stone 10173.</i>						153 <i>R. P. L. 131.</i>					
Aug. 15	6.0	18 34 36.91	...	151 12 21.9	R	Aug. 18	...	18 52 43.66	3	3 26 20.0	R
19	6.0	34 37.00	...	12 25.1	R	Sep. 10	...	52 42.95	3	26 19.5	R
23	6.0	34 37.20	5	12 25.1	R	11	...	52 43.06	3	26 19.5	R
28	6.0	34 37.27	...	12 25.0	R	13	...	52 44.87	3	26 20.0	R
Sep. 1	6.0	34 37.30	5	12 20.9	R	16	...	52 44.14	3	26 19.1	M
						24	...	52 43.64	3	26 19.6	M
148 <i>Taylor 8603.</i>						154 <i>Anon.</i>					
July 22	7.0	18 37 59.75	...	140 12 44.9	M	Aug. 2	8.9	18 53 58.75	...	128 6 51.9	R
25	...	37 59.66	...	12 46.2	M	4	8.9	53 58.69	3	6 50.5	R
Aug. 2	5.0	37 59.59	...	12 45.2	R	12	8.0	53 59.21	3	6 49.8	R
4	5.0	37 59.64	...	12 43.9	R						
8	5.0	37 59.80	...	12 44.8	R						
149 <i>η^1 Coronae Australis.</i>						155 <i>Stone 10351.</i>					
July 23	...	18 40 28.03	...	133 48 16.8	M	July 26	...	18 55 32.59	...	128 25 7.7	M
Aug. 12	...	40 28.18	...	48 16.1	R						
14	...	40 28.22	...	48 15.5	R						
15	...	40 28.05	...	48 14.9	R						
16	...	40 28.23	...	48 16.2	R						
						156 <i>Stone 10391.</i>					
						July 22	...	19 0 37.17	...	132 36 15.2	M
						Aug. 7	...	0 37.35	...	36 15.1	R

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157 <i>Stone 10399.</i>						165 <i>30 Aquilæ δ</i>					
Aug. 18	...	19 1 41.54	...	146 29 31.5	R	July 26	...	19 19 38.91	...	87 6 55.8	M
15	...	1 41.39	...	29 31.0	R	Aug. 5	...	19 38.95	...	6 55.2	R
19	...	1 41.48	...	29 31.7	R	166 <i>Anon.</i>					
21	...	1 41.68	4	29 31.6	R	Sep. 10	9.0	19 26 3.06	4	146 54 53.7	R
23	...	1 41.78	...	29 31.7	R	167 <i>Taylor 8982.</i>					
158 <i>Stone 10404.</i>						July 25	...	19 28 40.11	...	148 14 18.9	M
July 19	...	19 1 47.31	...	132 4 27.2	M	Aug. 12	...	28 40.04	...	14 17.1	R
25	...	1 47.15	...	4 28.5	M	13	...	28 40.09	...	14 17.4	R
Aug. 14	...	1 47.11	...	4 29.8	R	168 <i>Stone 10598.</i>					
16	...	1 47.20	...	4 28.4	R	July 22	6.7	19 32 1.36	...	129 41 38.2	M
18	...	1 47.31	...	4 28.2	R	26	...	32 1.34	...	41 37.9	M
159 <i>Stone 10428.</i>						Aug. 4	6.7	32 1.58	...	41 39.2	R
Aug. 8	...	19 5 43.15	...	155 25 29.6	R	169 <i>Anon.</i>					
12	...	5 42.76	...	25 31.7	R	Aug. 12	7.0	19 33 29.46	...	126 35 51.6	R
28	...	5 42.94	...	25 30.4	R	18	7.0	33 29.37	...	35 52.2	R
Sep. 1	...	5 43.19	4	25 31.7	R	15	7.5	33 29.47	...	35 51.1	R
8	...	5 42.69	...	25 29.8	R	16	7.5	33 29.51	...	35 52.0	R
160 <i>Anon.</i>						170 <i>Stone 10624.</i>					
July 22	9.5	19 10 17.85	...	130 46 28.3	M	Aug. 18	7.0	19 36 25.80	...	131 52 59.1	R
Aug. 13	9.5	10 17.67	...	46 27.9	R	19	7.0	36 25.78	...	52 59.0	R
161 <i>Stone 10465.</i>						171 <i>Stone 10643.</i>					
July 19	...	19 11 58.45	4	125 37 52.3	M	Aug. 12	6.7	19 39 52.89	...	143 10 12.8	R
25	...	11 58.64	...	37 52.6	M	15	6.7	39 53.16	...	10 12.6	R
162 <i>25 Aquilæ ω</i>						16	6.7	39 53.25	...	10 13.4	R
July 26	...	19 12 22.31	...	78 36 45.5	M	19	6.7	39 53.17	...	10 13.1	R
163 <i>Stone 10487.</i>						172 <i>λ Ursæ Minoris.</i>					
Aug. 2	7.0	19 14 18.07	...	119 49 ^{12.2} 18.5	R	Oct. 11	...	19 39 53.57	3	1 2 48.4	M
164 <i>49 Sagittarii χ³</i>						13	...	39 53.56	2	2 48.4	M
July 22	...	19 18 28.27	...	114 11 19.0	M						
25	...	18 28.28	...	11 18.1	M						
Aug. 8	...	18 28.34	...	11 19.2	R						

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		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<i>λ Ursæ Minoris—s.p.</i>										180 <i>65 Aquilæ θ</i>									
Feb. 9	...	19	39	57.07	3	1	2	49.2	R	Aug. 20	...	20	5	19.18	...	91	9	52.1	R
13	...	39	57.18	3		2		48.5	R	21	...	5	19.00	...		9	51.3	R	
16	...	39	57.19	3		2		48.8	R	23	...	5	19.10	...		9	51.9	R	
173 <i>50 Aquilæ γ</i>										25	...	5	19.18	...		9	53.5	R	
July 25	...	19	40	44.53	...	79	40	7.4	M	26	...	5	19.15	...		9	52.3	R	
Aug. 2	...	40	44.58	...		40		5.5	R	28	...	5	19.25	...		9	58.0	R	
4	...	40	44.62	...		40		5.6	R	Sep. 1	...	5	19.11	...		9	50.9	R	
7	...	40	44.68	...		40		6.8	R	8	...	5	19.13	...		9	53.1	R	
174 <i>53 Aquilæ α, Altair.</i>										10	...	5	19.10	...		9	52.0	R	
July 26	...	19	45	7.35	...	81	26	12.9	M	11	...	5	19.16	...		9	51.5	R	
Aug. 8	...	45	7.51	...		26		13.7	R	18	...	5	19.12	...		9	50.3	R	
16	...	45	7.38	...		26		12.7	R	16	...	5	19.18	...		9	53.3	M	
175 <i>60 Aquilæ β</i>										24	...	5	19.17	...		9	55.4	M	
Aug. 12	...	19	49	36.90	...	83	52	55.1	R	25	...	5	19.22	...		9	55.4	M	
176 <i>Stone 10739.</i>										26	...	5	19.16	...		9	54.4	M	
Aug. 4	6.7	19	52	22.35	...	138	21	31.2	R	Oct. 1	...	5	19.19	...		9	53.1	M	
177 <i>Anon.</i>										2	...	5	19.21	...		9	54.2	M	
Aug. 16	8.0	19	54	29.70	...	130	18	7.3	R	3	...	5	19.19	...		9	55.5	M	
19	8.0	54	29.90	...		18		7.1	R	4	...	5	19.24	...		9	53.7	M	
20	8.0	54	29.93	...		18		7.2	R	6	...	5	19.34	...		9	55.4	M	
23	8.0	54	30.06	...		18		6.3	R	181 <i>Taylor 9303.</i>									
178 <i>Stone 10797.</i>										Aug. 15	...	20	8	3.31	...	117	22	40.0	R
July 26	...	20	0	43.40	...	137	24	3.6	M	16	...	8	3.21	...		23	41.1	R	
Aug. 4	...	0	43.42	...		24		3.4	R	18	...	8	3.09	...		23	40.2	R	
179 <i>Stone 10803.</i>										182 <i>6 Capricorni α²</i>									
Aug. 5	6.7	20	2	1.27	...	184	13	52.0	R	Aug. 12	...	20	11	37.19	...	102	54	10.3	R
12	6.7	2	1.18	...		13		53.3	R	18	...	11	37.13	...		54	9.2	R	
15	6.7	2	1.16	...		13		52.4	R	183 <i>24 Cephei (Hev.), Var. 2.</i>									
16	6.7	2	1.30	...		13		54.0	R	Oct. 3	...	20	12	39.27	3	1	13	17.0	M
18	6.7	2	1.13	...		13		53.0	R	184 <i>Taylor 9343.</i>									
185 <i>Anon.</i>										Aug. 5	6.7	20	13	15.40	...	140	21	21.6	R
Sep. 13	8.5	20	18	5.71	5	121	8	2.9	R	185 <i>Anon.</i>									

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884.			No. of Wires.	Mean Polar Distance 1884.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884.			No. of Wires.	Mean Polar Distance 1884.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
186 <i>Anon.</i>										193 <i>2 Aquarii ε</i>									
Aug. 16	8.5	20	21	33.47	5	133	19	21.9	R	Oct. 6	...	20	41	23.55	...	99	55	12.3	M
187 <i>Taylor 9464.</i>										7	...	41	23.60	...	...	55	11.8	M
Aug. 19	...	20	26	44.31	...	112	37	23.7	R	8	...	41	23.65	...	...	55	11.9	M
188 <i>R. P. L. 143.</i>										9	...	41	23.71	...	...	55	12.0	M
Aug. 7	...	20	26	50.24	3	5	14	28.1	R	10	...	41	23.70	...	...	55	10.0	M
20	...	26	50.55	3	...	14	27.1	R	11	...	41	23.65	...	...	55	11.3	M	
Sep. 10	...	26	50.09	3	...	14	26.0	R	13	...	41	23.70	...	...	55	12.8	M	
189 <i>2 Delphini ε</i>										22	...	41	23.62	...	...	55	10.7	M
Oct. 6	...	20	27	40.17	...	79	5	26.5	M	27	...	41	23.73	...	...	55	12.6	M
7	...	27	40.23	...	...	5	25.7	M	28	...	41	23.63	...	...	...	55	12.1	M
8	...	27	40.25	...	...	5	24.6	M	194 <i>Stone 11091.</i>									
9	...	27	40.16	...	...	5	24.6	M	Aug. 23	...	20	44	45.21	5	142	8	54.4	R
10	...	27	40.13	...	...	5	26.1	M	28	...	44	45.13	...	...	...	8	56.1	R
11	...	27	40.26	...	...	5	25.3	M	Sep. 1	...	44	45.06	...	...	...	8	55.8	R
13	...	27	40.16	...	...	5	27.6	M	8	...	44	45.05	4	...	...	8	55.0	R
21	...	27	40.35	...	...	5	26.1	M	195 <i>Stone 11115.</i>									
22	...	27	40.19	...	...	5	26.0	M	Aug. 25	...	20	47	8.80	4	118	21	48.0	R
27	...	27	40.18	...	...	5	28.4	M	26	...	47	8.94	...	...	...	21	44.0	R
190 <i>Taylor 9561.</i>										196 <i>32 Vulpeculæ.</i>									
Aug. 12	...	20	37	18.15	...	126	14	39.1	R	Aug. 28	...	20	40	36.81	...	62	23	1.1	R
191 <i>50 Cygni α, Deneb.</i>										197 <i>Lalande 40458.</i>									
Sep. 13	...	20	37	28.50	...	45	7	59.9	R	Sep. 26	...	20	50	37.90	...	100	8	29.1	M
16	...	37	28.54	...	...	7	57.6	M	Oct. 1	...	50	37.84	...	...	...	8	30.8	M
24	...	37	28.39	...	...	7	58.9	M	2	...	50	37.84	...	...	...	8	31.0	M
25	...	37	28.46	...	...	7	58.9	M	4	...	50	37.85	...	...	...	8	30.2	M
26	...	37	28.49	...	...	7	58.1	M	6	...	50	37.84	...	...	...	8	29.2	M
192 <i>Taylor 9573.</i>										198 <i>76 Draconis.</i>									
Aug. 20	...	20	39	25.54	...	136	16	38.4	R	Oct. 8	...	20	50	54.94	...	7	53	59.1	M
23	...	39	25.62	...	...	16	37.6	R	9	...	50	54.09	...	...	...	53	59.2	M
										10	...	50	55.08	53	58.5	M
										11	...	50	55.07	53	59.5	M

Separate Results of Madras Meridian Circle Observations in 1884.

Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1884. h. m. s.	No. of Wires.	Mean Polar Distance 1884. ° ' "	Observer.
Oct. 22	...	22 15 39.91	...	19 58 20.6	M	Oct. 4	...	22 46 33.67	...	98 11 49.0	M
27	...	15 39.81	...	58 19.0	M	6	...	46 33.71	...	11 48.4	M
28	...	15 39.91	...	58 20.7	M	7	...	46 33.68	...	11 50.3	M
Nov. 12	...	15 39.82	...	58 16.2	R	8	...	46 33.76	...	11 48.5	M
14	...	15 39.88	...	58 17.2	R	9	...	46 33.65	...	11 49.5	M
15	...	15 39.94	...	58 18.2	R	10	...	46 33.70	...	11 50.1	M
17	...	15 39.98	...	58 17.0	R	11	...	46 33.73	...	11 49.5	M
213 <i>R. P. L. 150.</i>						22	...	46 33.59	...	11 47.7	M
Oct. 1	...	22 22 23.00	3	4 28 35.3	M	27	...	46 33.72	...	11 49.3	M
214 <i>R. P. L. 151.</i>						28	...	46 33.64	...	11 50.8	M
Oct. 2	...	22 22 48.59	3	4 21 43.5	M	Nov. 12	...	46 33.65	...	11 46.7	R
3	...	22 49.03	3	21 42.2	M	218 <i>24 Piscis Australis α, Fomalhaut.</i>					
215 <i>R. P. L. 153.</i>						Nov. 12	...	22 51 14.28	...	120 14 11.8	M
Oct. 4	...	22 26 44.31	3	2 30 25.0	M	14	...	51 14.28	...	14 12.7	M
<i>R. P. L. 153—s.p.</i>						219 <i>6 Piscium γ</i>					
Apl. 16	...	22 26 40.85	3	2 30 30.4	R	Oct. 3	...	23 11 9.07	...	87 21 4.7	M
216 <i>42 Pegasi ζ</i>						9	...	11 9.11	...	21 6.7	M
Oct. 1	...	22 35 40.42	...	79 46 27.0	M	220 <i>8 Piscium κ</i>					
2	...	35 40.68	...	46 26.7	M	Oct. 6	...	23 20 50.09	...	89 22 48.9	M
217 <i>73 Aquarii λ</i>						221 <i>17 Piscium ι</i>					
Oct. 1	...	22 46 33.71	...	98 11 48.8	M	Oct. 3	...	23 33 58.95	...	85 0 10.3	M
2	...	46 33.58	...	11 48.7	M	222 <i>28 Piscium ω</i>					
3	...	46 33.68	...	11 48.6	M	Oct. 10	...	23 53 21.30	...	83 46 14.9	M

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1884

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1884, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
1	8 Ceti α	3.6	...	0	13	31.01	99	28	1.8	13	0.85
2	12 Ceti	6.2	...	0	24	7.15	94	35	55.0	2	0.00
3	16 Ceti β	2.1	...	0	37	45.99	108	37	25.8	2	0.00
4	58 Piscium	5.7	...	0	40	58.25	78	39	32.8	1	0.87
5	63 Piscium δ	4.6	...	0	42	39.77	83	2	47.6	3	0.01
6	R. P. L. 10	6.6	...	0	51	41.82	1	35	54.6	16	0.83
7	2 Ursæ Minoris	4.5	...	0	53	5.22	4	21	55.9	1	0.00
8	R. P. L. 14	6.2	...	0	56	46.76	3	28	23.5	1	0.20
9	43 Androm. β (<i>Mirach</i>)	2.2	...	1	3	14.28	54	50	40.9	11	0.76
10	R. P. L. 18	7.9	...	1	13	54.46	2	2	33.9	2	0.88
11	1 Ursæ Minoris α (<i>Polaris</i>)	2.2	...	1	16	13.01	1	18	35.8	6	0.31
12	99 Piscium η	3.7	...	1	25	16.45	75	15	8.9	1	0.00
13	Lalande 2806	8.5	...	1	26	36.22	77	26	6.9	5	0.98
14	110 Piscium ϵ	4.4	...	1	39	16.10	81	25	35.1	10	0.92
15	8 Arietis ι	5.2	...	1	51	0.70	72	44	57.4	2	0.02
16	13 Arietis α	2.0	...	2	0	38.02	67	5	12.5	2	0.00
17	67 Ceti	5.5	...	2	11	11.85	96	57	26.6	4	0.01
18	R. P. L. 26	8.0	...	2	27	44.64	3	27	32.5	1	0.00
19	43 Arietis σ	5.5	...	2	45	5.29	75	23	46.4	13	0.72
20	Stone 1223	7.0	...	2	52	29.77	154	28	30.3	2	0.01
21	92 Ceti α (<i>Menkar</i>)	2.7	...	2	56	12.98	86	21	59.5	2	0.02
22	57 Arietis δ	4.5	...	3	4	59.74	70	42	46.7	8	0.26
23	R. P. L. 33	5.8	...	3	5	1.34	5	30	11.9	1	0.47
24	1 Tauri ϵ , Var. 5	Var.	...	3	18	34.27	81	22	48.9	6	0.04
25	R. P. L. 34	5.9	...	3	28	30.47	3	43	18.3	3	0.48
26	25 Tauri η (<i>Alcyone</i>)	3.0	...	3	40	35.33	66	15	18.9	2	0.01
27	34 Eridani γ^1	3.0	...	3	52	37.02	103	50	23.1	6	0.03
28	R. P. L. 35	6.7	...	4	0	30.80	4	45	8.0	4	0.04
29	74 Tauri ϵ	3.7	...	4	21	50.50	71	4	40.9	3	0.02
30	87 Tauri α (<i>Aldebaran</i>)	1.0	...	4	29	15.78	73	43	29.7	3	0.03
31	19 Orionis β (<i>Rigel</i>)	0.3	...	5	8	57.81	98	20	13.8	1	0.02
32	112 Tauri β	1.9	...	5	18	57.45	61	29	34.1	1	0.02
33	R. P. L. 40	6.0	...	5	24	55.82	4	51	56.5	3	0.05
34	34 Orionis δ , Var. 1	Var.	...	5	26	4.86	90	23	7.7	2	0.07
35	R. P. L. 41	7.5	...	5	29	32.98	4	44	55.9	1	0.06

6.—Groombridge 144.
18.—Carrington 352.
28.—Groombridge 750.

8.—Groombridge 195.
23.—Groombridge 595.
33.—Groombridge 944.

10.—Carrington 183
25.—Groombridge 642.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
1	8 Ceti ...	+ 3.0593	- 0.0023	- 0.003	- 20.019	+ 0.034	+ 0.03	14
2	12 Ceti ...	+ 3.0611	+ 0.0008	- 0.000	- 19.943	+ 0.055	+ 0.01	38
3	16 Ceti β ...	+ 2.9985	- 0.0055	+ 0.015	- 19.783	+ 0.080	- 0.03	70
4	58 Piscium ...	+ 3.1201	+ 0.0101	+ 0.002	- 19.734	+ 0.087	+ 0.01	76
5	63 Piscium δ ...	+ 3.1025	+ 0.0079	+ 0.004	- 19.708	+ 0.091	+ 0.04	85
6	R. P. L. 10 ...	+ 13.7867	+ 8.3218	+ 0.153	- 19.546	+ 0.458	+ 0.03	65
7	2 Ursæ Minoris ...	+ 7.0026	+ 1.3804	+ 0.068	- 19.518	+ 0.245	+ 0.01	92
8	R. P. L. 14 ...	+ 8.4754	+ 2.1579	+ 0.054	- 19.440	+ 0.311	+ 0.02	95
9	43 Andromedæ β ...	+ 3.3275	+ 0.0286	+ 0.014	- 19.295	+ 0.139	+ 0.08	140
10	R. P. L. 18 ...	+ 14.0492	+ 6.9011	...	- 19.020	+ 0.697	...	...
11	1 Ursæ Minoris α ...	+ 22.1581	+ 16.5716	+ 0.108	- 18.955	+ 1.063	+ 0.00	102
12	99 Piscium η ...	+ 3.2003	+ 0.0141	- 0.000	- 18.681	+ 0.177	+ 0.00	203
13	Lalande 2806 ...	+ 3.1822	+ 0.0129	...	- 18.639	+ 0.178	...	...
14	110 Piscium ϕ ...	+ 3.1570	+ 0.0111	+ 0.003	- 18.202	+ 0.200	- 0.06	232
15	8 Arietis ϵ ...	+ 3.2656	+ 0.0163	+ 0.001	- 17.747	+ 0.228	+ 0.02	262
16	13 Arietis α ...	+ 3.3563	+ 0.0203	+ 0.013	- 17.339	+ 0.252	+ 0.13	287
17	67 Ceti ...	+ 2.9840	+ 0.0049	+ 0.004	- 16.856	+ 0.242	+ 0.11	321
18	R. P. L. 26 ...	+ 16.3633	+ 3.8148	...	- 16.029	+ 1.441	...	...
19	43 Arietis σ ...	+ 3.3022	+ 0.0150	- 0.000	- 15.072	+ 0.323	+ 0.04	400
20	Stone 1223 ...	+ 1.1585	+ 0.0206	...	- 14.637	+ 0.121	...	...
21	92 Ceti α ...	+ 3.1313	+ 0.0098	- 0.003	- 14.415	+ 0.323	+ 0.07	428
22	57 Arietis δ ...	+ 3.4103	+ 0.0171	+ 0.010	- 13.867	+ 0.364	- 0.01	446
23	R. P. L. 33 ...	+ 13.0968	+ 1.6177	+ 0.044	- 13.866	+ 1.386	+ 0.12	402
24	1 Tauri ϕ ...	+ 3.2268	+ 0.0115	- 0.005	- 12.986	+ 0.364	+ 0.07	477
25	R. P. L. 34 ...	+ 19.3046	+ 3.2595	+ 0.136	- 12.301	+ 2.228	+ 0.06	Gr.
26	25 Tauri η ...	+ 3.5550	+ 0.0177	- 0.000	- 11.460	+ 0.430	+ 0.04	521
27	34 Eridani γ^1 ...	+ 2.7926	+ 0.0047	+ 0.003	- 10.581	+ 0.351	+ 0.11	546
28	R. P. L. 35 ...	+ 17.0176	+ 1.8051	+ 0.002	- 9.988	+ 2.156	- 0.02	750
29	74 Tauri ϵ ...	+ 3.4893	+ 0.0120	+ 0.007	- 8.329	+ 0.446	+ 0.03	609
30	87 Tauri α ...	+ 3.4324	+ 0.0105	+ 0.004	- 7.734	+ 0.464	+ 0.18	630
31	19 Orionis β ...	+ 2.8813	+ 0.0040	- 0.001	- 4.429	+ 0.412	- 0.01	786
32	112 Tauri β ...	+ 3.7869	+ 0.0082	+ 0.001	- 3.572	+ 0.545	+ 0.18	756
33	R. P. L. 40 ...	+ 18.5935	+ 0.5911	...	- 3.057	+ 2.681	...	...
34	34 Orionis δ ...	+ 3.0634	+ 0.0038	- 0.001	- 2.957	+ 0.443	+ 0.01	787
35	R. P. L. 41 ...	+ 19.0231	+ 0.5390	...	- 2.657	+ 2.751	...	...

Mean Positions of Stars for 1884, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	46 Orionis ϵ ...	1.8	...	5	30	19.76	91	16	38.9	1	0.06
37	58 Orionis α , Var. 2 ...	var.	...	5	48	53.47	82	36	57.2	9	0.07
38	R. P. L. 43 ...	6.6	...	6	0	55.51	3	14	17.6	3	0.35
39	13 Geminorum μ ...	3.2	...	6	15	56.51	67	25	42.8	1	0.08
40	... ..	8.0	1	6	36	52.07	130	22	0.1	1	0.06
41	51 Cephei (<i>Hev.</i>) ...	5.3	...	6	45	46.70	2	46	29.9	8	0.34
42	... ..	10.0	1	6	52	58.09	152	55	52.5	1	0.08
43	21 Canis Majoris ϵ ...	1.5	...	6	54	4.01	118	48	53.4	1	0.07
44	23 Canis Majoris γ ...	4.1	...	6	58	30.73	105	27	44.5	1	0.06
45	... ..	9.0	1	7	1	47.71	60	51	51.2	1	0.06
46	10 Canis Min. α (<i>Procyon</i>)	0.5	...	7	33	13.74	84	28	42.5	1	0.08
47	R. P. L. 45 ...	7.2	...	7	39	54.30	1	1	33.0	8	0.75
48	ξ Argus ...	3.4	...	7	44	24.85	114	34	8.6	10	0.12
49	R. P. L. 48 ...	7.4	...	7	47	5.77	3	58	15.7	4	0.72
50	R. P. L. 49 ...	6.7	...	7	49	0.57	5	36	39.6	5	0.47
51	15 Argus ρ ...	2.9	...	8	2	36.13	113	58	13.5	9	0.11
52	R. P. L. 53 ...	7.7	...	8	20	55.17	4	32	26.1	2	0.71
53	33 Cancri η ...	5.5	...	8	26	0.09	69	9	55.4	2	0.10
54	R. P. L. 55 ...	7.5	...	8	31	45.28	5	41	3.7	2	0.75
55	11 Hydræ ϵ ...	3.6	...	8	40	37.96	83	9	21.8	2	0.10
56	R. P. L. 60 ...	7.0	...	8	50	57.55	5	21	22.5	5	0.47
57	65 Cancri α ...	4.3	...	8	52	8.54	77	41	38.1	1	0.11
58	... ..	9.0	1	8	54	40.51	132	59	59.8	1	0.10
59	76 Cancri κ ...	5.0	...	9	1	27.81	78	51	57.0	1	0.11
60	83 Cancri ...	6.6	...	9	12	30.47	71	48	11.0	2	0.12
61	R. P. L. 62 ...	8.1	...	9	21	48.66	2	21	45.3	4	0.76
62	80 Hydræ α , Var. 2 ...	var.	...	9	21	53.25	98	9	22.4	2	0.13
63	2 Leonis ω ...	5.6	...	9	22	14.70	80	26	16.3	1	0.11
64	Lacaille 3980 ...	8.8	...	9	35	5.72	148	39	5.2	1	0.10
65	R. P. L. 69 ...	7.9	...	9	39	9.63	2	52	12.1	2	0.75
66	17 Leonis ϵ ...	3.1	...	9	39	16.14	65	41	32.3	2	0.15
67	R. P. L. 70 ...	5.0	...	9	49	50.03	5	31	24.6	5	0.24
68	32 Leonis α (<i>Regulus</i>) ...	1.4	...	10	2	11.61	77	27	55.7	3	0.20
69	R. P. L. 72 ...	6.0	...	10	12	36.74	5	9	36.0	6	0.44
70	41 Leonis γ^1 ...	2.5	...	10	13	34.55	69	34	19.4	3	0.25

38.—Groombridge 1004.

49.—Groombridge 1359.

67.—Carrington 1451.

45.—Comparison star for Isis in 1866.

56.—Carrington 1286.

69.—Groombridge 1620.

47.—Groombridge 1119.

65.—Carrington 1418.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
36	46 Orionis ϵ ...	+ 3.0428	+ 0.0035	- 0.002	- 2.580	+ 0.441	- 0.01	809
37	58 Orionis α ...	+ 3.2454	+ 0.0027	+ 0.001	- 0.971	+ 0.473	- 0.02	860
38	R. P. L. 48 ...	+ 26.7013	- 0.0432	...	+ 0.081	+ 3.804	...	...
39	18 Geminorum μ ...	+ 3.6268	- 0.0003	+ 0.004	+ 1.393	+ 0.527	+ 0.10	929
40	... ..	+ 1.9505	+ 0.0014	...	+ 3.213	+ 0.280	...	...
41	51 Cephei (<i>Hev.</i>) ...	+ 30.1062	- 2.2868	- 0.040	+ 3.979	+ 4.301	+ 0.05	Gr.
42	... ..	+ 0.5261	- 0.0086	...	+ 4.594	+ 0.073	...	...
43	21 Canis Majoris ϵ ...	+ 2.3573	+ 0.0013	- 0.001	+ 4.687	+ 0.332	- 0.02	1023
44	23 Canis Majoris γ ...	+ 2.7145	+ 0.0005	- 0.002	+ 5.064	+ 0.381	+ 0.00	1028
45	... ..	+ 3.7907	- 0.0081	...	+ 5.342	+ 0.532	...	...
46	10 Canis Minoris α ...	+ 3.1911	- 0.0041	- 0.047	+ 7.935	+ 0.425	+ 1.03	1106
47	R. P. L. 45 ...	+ 70.7557	- 31.7803	...	+ 8.408	+ 9.350	...	...
48	ξ Argûs ...	+ 2.5235	+ 0.0008	- 0.001	+ 8.823	+ 0.327	- 0.02	1132
49	R. P. L. 48 ...	+ 20.2656	- 2.3745	...	+ 9.034	+ 2.635	...	...
50	R. P. L. 49 ...	+ 15.1693	- 1.2443	...	+ 9.183	+ 1.963	...	...
51	15 Argûs ρ ...	+ 2.5610	+ 0.0009	- 0.008	+ 10.223	+ 0.318	- 0.06	1170
52	R. P. L. 53 ...	+ 16.8237	- 2.1694	...	+ 11.568	+ 1.909	...	...
53	33 Cancri η ...	+ 3.4814	- 0.0129	- 0.004	+ 11.928	+ 0.404	+ 0.05	1207
54	R. P. L. 55 ...	+ 13.6624	- 1.4650	...	+ 12.329	+ 1.566	...	...
55	11 Hydra ϵ ...	+ 3.1950	- 0.0071	- 0.014	+ 12.933	+ 0.351	+ 0.02	1243
56	R. P. L. 60 ...	+ 13.5446	- 1.6398	...	+ 13.610	+ 1.445	...	...
57	65 Cancri α ...	+ 3.2855	- 0.0098	+ 0.001	+ 13.685	+ 0.345	+ 0.02	1269
58	... ..	+ 2.1706	+ 0.0037	...	+ 13.847	+ 0.224	...	...
59	76 Cancri κ ...	+ 3.2573	- 0.0093	- 0.003	+ 14.270	+ 0.329	- 0.01	1287
60	83 Cancri ...	+ 3.3657	- 0.0134	- 0.009	+ 14.932	+ 0.323	+ 0.14	1309
61	R. P. L. 62 ...	+ 23.7048	- 8.0701	..	+ 15.463	+ 2.193	..	...
62	30 Hydra α ...	+ 2.9504	- 0.0013	- 0.002	+ 15.468	+ 0.268	- 0.05	1330
63	2 Leonis ω ...	+ 3.2155	- 0.0088	+ 0.002	+ 15.487	+ 0.292	- 0.02	1328
64	Lucaille 3980 ...	+ 1.7754	+ 0.0024	...	+ 16.177	+ 0.147	...	...
65	R. P. L. 69 ...	+ 18.4483	- 5.3716	...	+ 16.385	+ 1.544	...	...
66	17 Leonis ϵ ...	+ 3.4203	- 0.0180	- 0.004	+ 16.390	+ 0.282	+ 0.01	1368
67	R. P. L. 70 ...	+ 10.5091	- 1.5283	...	+ 16.905	+ 0.817	...	...
68	32 Leonis α ...	+ 3.2185	- 0.0102	- 0.018	+ 17.462	+ 0.225	- 0.02	1406
69	R. P. L. 72 ...	+ 9.7581	- 1.5862	- 0.096	+ 17.892	+ 0.635	- 0.04	1399
70	41 Leonis γ ...	+ 3.2954	- 0.0148	+ 0.021	+ 17.930	+ 0.208	+ 0.14	1432

Mean Positions of Stars for 1884, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
71	W. B. E. X. 386	9.0	5	10	21	7.71	92	27	41.2	5	0.30
72	... ..	7.8	5	10	21	42.22	92	55	39.0	5	0.31
73	47 Leonis ρ	4.0	...	10	26	42.13	80	5	47.6	1	0.29
74	Yarnall 4465	5.5	...	10	37	6.39	66	12	16.6	5	0.33
75	... ..	9.0	4	10	39	7.16	65	48	40.9	4	0.30
76	... ..	9.0	5	10	41	36.86	66	3	0.3	5	0.31
77	53 Leonis ι	5.3	...	10	43	9.55	78	50	26.9	1	0.29
78	68 Leonis χ	4.7	...	10	59	1.98	82	2	12.5	2	0.29
79	R. P. L. 79	7.7	...	11	0	32.98	1	43	18.0	7	0.76
80	68 Leonis δ	2.8	...	11	7	56.32	68	50	27.7	2	0.29
81	84 Leonis τ	5.1	...	11	21	58.27	86	30	17.2	10	0.32
82	94 Leonis β	2.2	...	11	43	8.59	74	46	45.7	1	0.29
83	R. P. L. 87	8.0	...	11	53	35.40	3	21	33.1	5	0.87
84	8 Virginis π	4.4	...	11	54	55.71	82	44	18.1	10	0.32
85	... ..	9.0	5	11	58	39.63	86	44	2.1	5	0.32
86	R. P. L. 89	6.3	...	11	58	51.51	3	46	11.0	6	0.49
87	2 Corvi ϵ	3.1	...	12	4	9.43	111	58	25.6	1	0.29
88	R. P. L. 92	6.7	...	12	13	27.51	2	55	9.1	3	0.67
89	15 Virginis η	4.0	...	12	13	58.21	90	1	19.8	3	0.30
90	R. P. L. 93	6.7	...	12	14	21.69	1	39	26.4	2	0.59
91	Lalande 23300	8.5	...	12	21	49.85	91	44	15.9	5	0.29
92	R. P. L. 97	7.2	...	12	37	34.07	5	43	8.3	1	0.82
93	R. P. L. 99	5.6	...	12	48	16.71	5	57	22.5	2	0.29
94	47 Virginis ϵ	3.0	...	12	56	24.18	73	25	0.0	10	0.32
95	R. P. L. 100	8.0	...	13	0	23.40	3	29	29.9	5	0.94
96	R. P. L. 101	7.5	...	13	6	57.29	1	43	41.5	4	0.49
97	67 Virginis α (<i>Spiræ</i>)	1.2	...	13	19	4.82	100	33	18.2	1	0.30
98	R. P. L. 103	7.0	...	13	19	20.11	4	38	20.8	9	0.58
99	8 Bootis η	2.9	...	13	49	9.81	71	1	13.0	1	0.30
100	93 Virginis τ	4.3	...	13	55	44.70	87	53	35.0	2	0.47
101	R. P. L. 108	7.8	...	14	1	21.69	3	41	10.2	2	0.48
102	16 Bootis α (<i>Arcturus</i>)	0.0	...	14	10	22.21	70	12	45.6	3	0.47
103	25 Bootis ρ	3.6	...	14	26	49.78	52.9	7	5.7	1	0.47
104	36 Bootis ϵ^2 (<i>Miræ</i>)	2.6	...	14	39	55.17	62	26	9.4	4	0.47
105	9 Libræ α^2	3.0	...	14	44	27.81	105	33	27.9	3	0.48

71—72—74—75—76.—Comparison stars for Sylvia in 1884.
 85.—Comparison star for Camilla in 1884.
 88.—Groombridge 1871.
 91.—Comparison star for Hestia in 1884.
 96.—Groombridge 2006.
 101.—Groombridge 2099.

79.—Carrington 1639.
 86.—Groombridge 1850.
 90.—Groombridge 1884.
 93.—Groombridge 1940.
 98.—Groombridge 2007.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
71	W. B. N. X. 336	+ 3.0483	- 0.0020	...	+ 18.216	+ 0.179	...	...
72	... ..	+ 3.0440	- 0.0016	...	+ 18.244	+ 0.177	...	...
73	47 Leonis ρ ...	+ 3.1648	- 0.0080	- 0.001	+ 18.415	+ 0.176	- 0.01	1487
74	Yarnall 4465...	+ 3.2810	- 0.0166	...	+ 18.757	+ 0.162	...	...
75	... ..	+ 3.2799	- 0.0168	...	+ 18.817	+ 0.158	...	...
76	... ..	+ 3.2715	- 0.0164	...	+ 18.893	+ 0.153	...	...
77	53 Leonis l ...	+ 3.1592	- 0.0080	- 0.002	+ 18.937	+ 0.145	+ 0.02	1500
78	63 Leonis χ ...	+ 3.1215	- 0.0056	- 0.026	+ 19.348	+ 0.113	+ 0.02	1535
79	R. P. L. 79 ...	+ 14.4261	- 8.0284	...	+ 19.383	+ 0.532	...	...
80	68 Leonis δ ...	+ 3.1889	- 0.0132	+ 0.010	+ 19.539	+ 0.098	+ 0.12	1546
81	81 Leonis τ ...	+ 3.0859	- 0.0020	- 0.001	+ 19.778	+ 0.086	+ 0.01	1570
82	94 Leonis β ...	+ 3.0991	- 0.0074	- 0.036	+ 19.999	+ 0.025	+ 0.10	1605
83	R. P. L. 87 ...	+ 3.9799	- 1.1518	..	+ 20.046	+ 0.007	...	...
84	8 Virginis π ...	+ 3.0761	- 0.0023	- 0.003	+ 20.048	+ 0.002	+ 0.02	1618
85	... ..	+ 3.0723	+ 0.0001	...	+ 20.054	- 0.005	...	...
86	R. P. L. 89 ...	+ 3.1735	- 0.4815	...	+ 20.053	- 0.007	...	...
87	2 Corvi ϵ ...	+ 3.0822	+ 0.0142	- 0.006	+ 20.051	- 0.016	- 0.02	1626
88	R. P. L. 92 ...	+ 1.5341	+ 0.0043	+ 0.285	+ 20.019	- 0.022	+ 0.02	1656
89	15 Virginis η ...	+ 3.0724	+ 0.0027	- 0.006	+ 20.016	- 0.035	+ 0.02	1647
90	R. P. L. 93 ...	+ 0.1787	+ 0.9144	- 0.090	+ 20.014	- 0.011	- 0.08	1672
91	Lalande 23300 ...	+ 3.0763	+ 0.0040	...	+ 19.962	- 0.051	...	...
92	R. P. L. 97 ...	+ 0.8939	+ 0.1280	...	+ 19.785	- 0.030	...	...
93	R. P. L. 99 ...	+ 0.3931	+ 0.2141	- 0.020	+ 19.610	- 0.020	- 0.02	1731
94	47 Virginis ϵ ...	+ 3.0056	- 0.0007	- 0.019	+ 19.450	- 0.114	- 0.03	1735
95	R. P. L. 100 ...	- 2.6354	+ 1.2911	...	+ 19.361	+ 0.092	..	...
96	R. P. L. 101 ...	- 9.6885	+ 6.9738	...	+ 19.204	+ 0.390	...	...
97	67 Virginis α ...	+ 3.1566	+ 0.0116	- 0.004	+ 18.871	- 0.163	+ 0.02	1774
98	R. P. L. 103 ...	- 2.5175	+ 0.9222	...	+ 18.864	+ 0.117	...	...
99	8 Bootis η ...	+ 2.8615	- 0.0006	- 0.005	+ 17.821	- 0.199	+ 0.34	1821
100	93 Virginis τ ...	+ 3.0486	+ 0.0064	- 0.001	+ 17.550	- 0.222	+ 0.03	1829
101	R. P. L. 108 ...	- 7.4102	+ 2.3425	...	+ 17.307	+ 0.539	...	...
102	16 Bootis α ...	+ 2.8131	+ 0.0044	- 0.080	+ 16.895	- 0.227	+ 1.98	1847
103	25 Bootis ρ ...	+ 2.5945	- 0.0015	- 0.009	+ 16.077	- 0.233	- 0.13	1869
104	36 Bootis ϵ^s ...	+ 2.6240	- 0.0001	- 0.004	+ 15.366	- 0.252	- 0.00	1890
105	9 Libræ α^2 ...	+ 3.3171	+ 0.0154	- 0.009	+ 15.108	- 0.324	+ 0.07	1894

Mean Positions of Stars for 1884, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
106	T Tringuli Australis, Var.	var.	...	14	58	57.26	158	16	20.9	2	0.48
107	R. P. L. 111 ...	7.0	...	15	3	27.20	5	36	0.7	7	0.37
108	27 Libræ β ...	2.7	...	15	10	45.85	98	57	14.4	3	0.48
109	Redhill 2298 ...	8.0	...	15	11	46.31	4	25	39.8	1	0.91
110	R. P. L. 114 ...	6.9	...	15	15	0.11	2	19	21.5	2	0.54
111	5 Cor. Bor. <i>a</i> (<i>Alpheta</i>) ...	2.4	...	15	29	46.52	62	53	38.7	7	0.54
112	24 Serpentis α ...	2.7	..	15	38	33.30	83	12	31.6	10	0.54
113	R. P. L. 115 ...	7.0	...	15	45	12.50	4	47	32.4	1	0.47
114	16 Ursæ Minoris ζ ...	4.5	...	15	48	13.52	11	50	55.6	1	0.47
115	8 Scorpii β^1 ...	3.0	...	15	58	41.60	109	29	11.6	5	0.50
116	R. P. L. 116 ...	7.0	...	16	0	35.25	4	22	2.6	2	0.25
117	1 Ophiuchi δ ...	2.8	...	16	8	15.93	93	23	39.6	2	0.47
118	21 Scorpii α (<i>Antares</i>) ...	1.1	...	16	22	17.75	116	10	24.6	2	0.47
119	40 Herculis ζ ...	3.1	...	16	36	54.71	58	11	11.4	3	0.50
120	22 Ursæ Minoris ϵ ...	4.5	...	16	57	53.10	7	46	30.4	1	0.02
121	R. P. L. 118 ...	8.0	...	17	1	48.75	5	8	39.2	1	0.53
122	G. Z. C. XVII. 421 ...	9.4	...	17	7	0.73	130	55	11.6	1	0.64
123	64 Herculis α^1 , Var. 1 ...	var.	...	17	9	21.46	75	28	33.9	3	0.54
124	... ..	9.0	5	17	14	42.42	126	23	40.2	5	0.64
125	Taylor 8070 ...	6.6	...	17	21	5.23	126	40	46.3	5	0.64
126	35 Scorpii λ ...	1.7	...	17	25	44.05	127	1	3.8	4	0.65
127	Stone 9578 ...	7.8	...	17	28	15.00	146	44	40.4	2	0.64
128	55 Ophiuchi α ...	2.2	...	17	29	32.99	77	21	17.6	1	0.47
129	R. P. L. 120 ...	7.3	...	17	31	35.51	5	17	25.9	2	0.51
130	... ..	7.5	5	17	34	30.34	125	44	22.4	5	0.69
131	60 Ophiuchi β ...	2.9	...	17	37	44.48	85	22	58.7	10	0.65
132	86 Herculis μ ...	3.5	...	17	41	55.08	62	12	38.2	4	0.56
133	... ..	8.3	2	17	42	56.44	143	28	19.8	2	0.58
134	72 Ophiuchi ...	3.8	...	18	1	50.98	80	27	5.5	10	0.65
135	Taylor 8410 ...	5.7	...	18	4	38.65	113	43	23.6	5	0.57
136	13 Sagittarii μ^1 ...	4.1	...	18	6	49.47	111	5	16.3	1	0.55
137	Stone 9951 ...	6.4	...	18	8	27.26	153	55	4.1	5	0.61
138	28 Ursæ Minoris δ ...	4.3	...	18	9	44.43	3	23	24.8	9	0.07
139	Taylor 8440 ...	4.4	...	18	12	32.15	151	32	40.2	5	0.59
140	24 Ursæ Minoris ...	5.9	...	18	13	43.65	3	0	38.8	9	0.54

107.—Groombridge 2213.

116.—Carrington 2423.

110.—Groombridge 2283.

124.—125.—130.—Comparison stars for comet in 1884.

113.—Carrington 2380.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
106	T Trianguli Austr. ...	+ 5.4337	+ 0.1423	...	+ 14.245	- 0.561	...	...
107	R. P. L. 111 ...	- 6.7126	+ 1.1515	...	+ 13.065	+ 0.696	...	...
108	27 Libræ β ...	+ 3.2281	+ 0.0117	- 0.008	+ 13.498	- 0.353	+ 0.02	1934
109	Redhill 2293 ...	- 9.7404	+ 1.9100	...	+ 13.433	+ 1.049	...	...
110	R. P. L. 114 ...	- 21.7082	+ 7.3670	...	+ 13.222	+ 2.374	...	...
111	5 Coronæ Borealis α ...	+ 2.5299	+ 0.0023	+ 0.009	+ 12.223	- 0.297	+ 0.09	1973
112	24 Serpentis α ...	+ 2.9426	+ 0.0062	+ 0.008	+ 11.606	- 0.354	- 0.06	1990
113	R. P. L. 115 ...	- 10.1949	+ 1.5232	...	+ 11.126	+ 0.119	...	...
114	16 Ursæ Minoris ζ ...	- 2.2748	+ 0.2031	+ 0.003	+ 10.906	+ 0.276	+ 0.00	2041
115	8 Scorpii β ...	+ 3.4807	+ 0.0142	- 0.003	+ 10.125	- 0.441	+ 0.03	2034
116	R. P. L. 116 ...	- 12.1097	+ 1.7435	...	+ 9.982	+ 1.528	...	...
117	1 Ophiuchi δ ...	+ 3.1424	+ 0.0081	- 0.005	+ 9.394	- 0.408	+ 0.14	2065
118	21 Scorpii α ...	+ 3.6707	+ 0.0150	- 0.002	+ 8.293	- 0.491	+ 0.03	2001
119	40 Herculis ζ ...	+ 2.2970	+ 0.0033	- 0.036	+ 7.112	- 0.316	- 0.41	2127
120	22 Ursæ Minoris ϵ ...	- 0.3616	+ 0.3105	+ 0.009	+ 5.369	+ 0.892	+ 0.00	2201
121	R. P. L. 118 ...	- 11.3019	+ 0.7079	...	+ 5.037	+ 1.593	...	...
122	G. Z. C. XVII. 421 ...	+ 4.2006	+ 0.0149	...	+ 4.586	- 0.597	...	...
123	64 Herculis α^1 ...	+ 2.7345	+ 0.0035	- 0.002	+ 4.395	- 0.391	- 0.03	2183
124	... ..	+ 4.0387	+ 0.0112	...	+ 3.938	- 0.579	...	...
125	Taylor 8070 ...	+ 4.0539	+ 0.0100	...	+ 3.389	- 0.583	...	...
126	35 Scorpii λ ...	+ 4.0693	+ 0.0090	- 0.001	+ 2.976	- 0.588	+ 0.05	2210
127	Stone 9578 ...	+ 5.0915	+ 0.0176	...	+ 2.770	- 0.736	...	...
128	55 Ophiuchi α ...	+ 2.7751	+ 0.0030	+ 0.007	+ 2.657	- 0.402	+ 0.22	2218
129	R. P. L. 120 ...	- 11.2544	+ 0.3418	...	+ 2.479	+ 1.628	...	...
130	... ..	+ 4.0285	+ 0.0069	...	+ 2.227	- 0.585	...	...
131	60 Ophiuchi β ...	+ 2.9650	+ 0.0030	- 0.004	+ 1.944	- 0.431	- 0.17	2220
132	86 Herculis μ ...	+ 2.3699	+ 0.0025	- 0.024	+ 1.580	- 0.346	+ 0.75	2237
133	... ..	+ 4.8723	+ 0.0089	...	+ 1.492	- 0.709	...	...
134	72 Ophiuchi ...	+ 2.8475	+ 0.0019	- 0.006	- 0.161	- 0.415	- 0.09	2275
135	Taylor 8410 ...	+ 3.6598	+ 0.0010	...	- 0.406	- 0.534	...	...
136	13 Sagittarii μ^1 ...	+ 3.5877	+ 0.0009	- 0.001	- 0.597	- 0.523	- 0.00	2284
137	Stone 9951 ...	+ 5.8016	- 0.0053	...	- 0.739	- 0.814	...	...
138	23 Ursæ Minoris δ ...	- 19.4754	- 0.2819	+ 0.026	- 0.852	+ 2.838	- 0.04	2395
139	Taylor 8440 ...	+ 5.5356	- 0.0072	- 0.003	- 1.096	- 0.806	0.00	Stone
140	24 Ursæ Minoris ...	- 22.3111	- 0.5148	+ 0.067	- 1.201	+ 3.247	+ 0.02	2417

Mean Positions of Stars for 1884, January 1st.

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				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
141	Taylor 8454 ...	6.0	...	18	15	1.34	126	43	19.5	5	0.57
142	Stone 10042 ...	6.2	...	18	20	24.43	119	53	8.2	5	0.57
143	22 Sagittarii λ ...	3.1	...	18	20	48.85	115	29	2.1	2	0.59
144	Taylor 8520 ...	6.7	...	18	25	11.35	142	58	27.4	4	0.57
145	Stone 10137 ...	6.9	...	18	31	2.41	154	44	44.7	5	0.61
146	3 Lyræ α (<i>Vega</i>) ...	0.2	...	18	33	0.47	51	19	23.7	6	0.58
147	Stone 10173 ...	6.5	...	18	34	37.14	151	12	23.6	5	0.64
148	Taylor 8603 ...	6.8	...	18	37	59.69	140	12	45.0	5	0.58
149	γ^1 Coronæ Australis ...	5.7	...	18	40	28.14	133	48	15.9	5	0.60
150	... ..	8.0	2	18	43	52.86	125	30	56.7	2	0.63
151	10 Lyræ β , Var. 1... ..	3.6	...	18	45	47.71	56	46	17.1	4	0.59
152	... ..	9.5	4	18	52	19.12	132	56	52.8	4	0.62
153	R. P. L. 131 ...	6.5	...	18	52	43.72	3	26	19.6	6	0.69
154	... ..	8.6	3	18	53	58.88	128	6	50.7	3	0.59
155	Stone 10351 ...	6.1	...	18	55	22.59	128	25	7.7	1	0.56
156	Stone 10391 ...	7.8	...	19	0	37.26	132	36	15.2	2	0.58
157	Stone 10399 ...	7.5	...	19	1	41.55	146	29	31.5	5	0.63
158	Stone 10404 ...	6.2	...	19	1	47.22	132	4	28.3	5	0.59
159	Stone 10428 ...	6.7	...	19	5	42.95	155	25	30.6	5	0.64
160	... ..	9.5	2	19	10	17.76	130	46	28.1	2	0.58
161	Stone 10465 ...	5.9	...	19	11	58.55	125	37	52.5	2	0.55
162	25 Aquilæ ω ...	5.1	...	19	12	22.31	78	36	45.5	1	0.56
163	Stone 10487 ...	7.0	...	19	14	18.07	119	49	12.5	1	0.58
164	40 Sagittarii χ^3 ...	5.9	...	19	18	28.30	114	11	18.8	3	0.57
165	30 Aquilæ δ ...	3.5	...	19	19	38.93	87	6	55.6	2	0.58
166	... ..	9.0	2	19	26	3.06	146	54	53.7	1	0.69
167	Taylor 8982 ...	6.3	...	19	28	40.08	148	14	17.8	3	0.59
168	Stone 10598 ...	6.8	...	19	32	1.43	129	41	38.4	3	0.57
169	... ..	7.3	4	19	33	29.45	126	35	51.7	4	0.62
170	Stone 10624 ...	7.2	...	19	36	25.79	131	52	59.1	2	0.63
171	Stone 10643 ...	6.6	...	19	39	53.12	143	10	13.0	4	0.63
172	λ Ursæ Minoris ...	6.5	...	19	39	57.71	1	2	48.8	5	0.38
173	50 Aquilæ γ ...	2.8	...	19	40	44.60	79	40	6.2	4	0.58
174	53 Aquilæ α (<i>Altair</i>) ...	1.0	...	19	45	7.41	81	26	13.1	3	0.60
175	60 Aquilæ β ...	4.0	...	19	49	36.90	83	52	55.1	1	0.61

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
141	Taylor 8454 ...	+ 4.0676	- 0.0017	...	- 1.314	- 0.591	...	...
142	Stone 10042 ..	+ 3.8377	- 0.0018	...	- 1.783	- 0.557	...	...
143	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.818	- 0.537	+ 0.20	2310
144	Taylor 8520 ..	+ 4.8342	- 0.0093	...	- 2.200	- 0.701	...	...
145	Stone 10137 ...	+ 5.8805	- 0.0240	...	- 2.706	- 0.850	...	...
146	3 Lyrae α ...	+ 2.6133	+ 0.0016	+ 0.017	- 2.878	- 0.200	- 0.30	2341
147	Stone 10173 ...	+ 5.4772	- 0.0216	...	- 3.018	- 0.790	...	...
148	Taylor 8003 ...	+ 4.6558	- 0.0127	...	- 3.309	- 0.670	...	...
149	η^1 Corona Australis..	+ 4.3346	- 0.0008	...	- 3.523	- 0.622	...	...
150	... ..	+ 4.0091	- 0.0073	...	- 3.817	- 0.573	...	...
151	10 Lyrae β ...	+ 2.2140	+ 0.0015	- 0.001	- 3.980	- 0.315	- 0.02	2369
152	... ..	+ 4.2845	- 0.0126	...	- 4.539	- 0.607	...	...
153	R. P. L. 131 ...	- 18.5891	- 1.4722	...	- 4.573	+ 2.641	...	...
154	... ..	+ 4.0922	- 0.0104	...	- 4.680	- 0.579	...	...
155	Stone 10351 ...	+ 4.1019	- 0.0109	...	- 4.798	- 0.579	...	...
156	Stone 10391 ...	+ 4.2592	- 0.0145	...	- 5.243	- 0.598	...	...
157	Stone 10399 ...	+ 5.0189	- 0.0291	...	- 5.333	- 0.705	...	...
158	Stone 10404 ...	+ 4.2356	- 0.0144	...	- 5.341	- 0.594	...	...
159	Stone 10428 ...	+ 5.8763	- 0.0544	...	- 5.672	- 0.822	...	...
160	... ..	+ 4.1715	- 0.0155	...	- 6.055	- 0.574	...	...
161	Stone 10465 ...	+ 3.9838	- 0.0127	...	- 6.196	- 0.550	...	...
162	25 Aquilae ω ...	+ 2.1865	- 0.0003	- 0.001	- 6.228	- 0.388	- 0.03	2432
163	Stone 10487 ...	+ 3.7988	- 0.0103	...	- 6.388	- 0.523	...	...
164	49 Sagittarii χ^a ...	+ 3.6380	- 0.0085	- 0.003	- 6.734	- 0.497	+ 0.01	2446
165	30 Aquilae δ ...	+ 3.0091	- 0.0013	+ 0.015	- 6.830	- 0.410	- 0.09	2451
166	... ..	+ 4.9813	- 0.0108	...	- 7.355	- 0.674	...	...
167	Taylor 8982 ...	+ 5.0721	- 0.0452	...	- 7.567	- 0.682	...	...
168	Stone 10598 ...	+ 4.0939	- 0.0192	...	- 7.838	- 0.548	...	...
169	... ..	+ 3.9837	- 0.0172	...	- 7.956	- 0.531	...	...
170	Stone 10624 ...	+ 4.1666	- 0.0221	...	- 8.190	- 0.553	...	...
171	Stone 10643 ...	+ 4.6906	- 0.0382	...	- 8.465	- 0.617	...	...
172	λ Ursa Minoris ...	- 63.2362	- 29.0936	- 0.050	- 8.472	+ 8.360	+ 0.01	2795
173	50 Aquilae γ ...	+ 2.8518	- 0.0011	- 0.001	- 8.534	- 0.373	- 0.01	2511
174	53 Aquilae α ...	+ 2.8019	- 0.0014	+ 0.035	- 8.879	- 0.374	- 0.38	2524
175	60 Aquilae β ...	+ 2.9451	- 0.0020	+ 0.001	- 9.230	- 0.378	+ 0.47	2538

Mean Positions of Stars for 1884, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
176	Stone 10739	6·7	...	19	52	22·35	133	21	31·2	1	0·59
177	... ..	8·0	4	19	54	29·90	130	18	7·0	4	0·63
178	Stone 10797	6·6	...	20	0	43·46	137	24	3·5	2	0·58
179	Stone 10803	6·6	...	20	2	1·21	134	13	52·9	5	0·61
180	65 Aquilæ θ	3·4	...	20	5	19·17	91	9	53·1	20	0·70
181	Taylor 9308	6·2	...	20	8	3·20	117	22	40·4	3	0·62
182	6 Capricorni α ²	3·8	...	20	11	37·16	102	54	9·8	2	0·62
183	24 Cephei (<i>Hev.</i>), Var 2. ...	var.	...	20	12	39·27	1	13	17·0	1	0·75
184	Taylor 9343	6·5	...	20	13	15·40	140	21	21·6	1	0·59
185	... ..	8·5	1	20	18	5·71	121	8	2·9	1	0·70
186	... ..	8·5	1	20	21	33·47	133	19	21·9	1	0·62
187	Taylor 9464	7·8	...	20	26	44·31	112	37	23·7	1	0·63
188	R. P. L. 143	6·7	...	20	26	50·29	5	14	27·1	3	0·64
189	2 Delphini ε	4·1	...	20	27	40·21	79	5	26·1	10	0·78
190	Taylor 9561	7·2	...	20	37	18·15	126	14	39·1	1	0·61
191	50 Cygni α (<i>Deneb</i>)	1·5	...	20	37	28·48	45	7	58·7	5	0·72
192	Taylor 9573	7·0	...	20	39	25·58	136	16	38·0	2	0·64
193	2 Aquarii ε	3·8	...	20	41	23·66	99	55	11·8	10	0·78
194	Stone 11091	7·5	...	20	44	45·11	142	8	55·3	4	0·66
195	Stone 11115	6·7	...	20	47	8·92	118	21	46·3	2	0·65
196	32 Vulpeculæ	5·1	...	20	49	36·31	62	23	1·1	1	0·66
197	Lalande 40453	5·9	...	20	50	37·85	100	8	30·1	5	0·75
198	76 Draconis ... ..	...	...	20	50	54·95	7	53	59·1	4	0·77
199	Stone 11191	7·5	...	20	58	16·69	138	59	11·8	1	0·66
200	23 Capricorni θ	4·3	...	20	59	25·56	107	41	33·7	1	0·64
201	... ..	8·0	3	21	0	18·20	150	59	24·5	3	0·72
202	24 Capricorni A	4·6	...	21	0	20·45	115	28	6·3	1	0·65
203	61 Cygni—1st	5·5	...	21	1	41·84	51	49	11·8	2	0·68
204	61 Cygni—2nd	6·3	...	21	1	43·27	51	49	24·2	8	0·76
205	... ..	8·5	4	21	4	28·17	100	40	52·3	5	0·79
206	64 Cygni ζ	3·5	...	21	7	59·89	60	14	51·9	1	0·67
207	5 Cephei α	2·6	...	21	15	48·46	27	54	20·8	8	0·75
208	22 Aquarii β	3·1	...	21	25	27·12	96	4	51·0	2	0·71
209	... ..	9·0	4	21	33	43·31	119	45	19·4	5	0·75
210	ε Indi	5·2	...	21	54	28·88	147	15	41·8	10	0·76

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
176	Stone 10739 ...	+ 4.1859	- 0.0268	...	- 9.444	- 0.536	...	...
177	... ..	+ 4.0677	- 0.0239	...	- 9.606	- 0.518	...	...
178	Stone 10797 ...	+ 4.3292	- 0.0338	...	- 10.081	- 0.543	...	...
179	Stone 10803 ...	+ 4.1937	- 0.0297	...	- 10.180	- 0.524	...	...
180	65 Aquilæ θ ...	+ 3.0956	- 0.0042	- 0.000	- 10.426	- 0.382	- 0.01	2576
181	Taylor 9303 ...	+ 3.6594	- 0.0155	...	- 10.630	- 0.448	...	...
182	6 Capricorni α ^a ...	+ 3.3295	- 0.0084	+ 0.002	- 10.894	- 0.403	- 0.02	2595
183	24 Cephei (Her.) ...	- 4.04201	- 25.4047	...	- 10.970	+ 6.038	...	...
184	Taylor 9343 ...	+ 4.4207	- 0.0417	...	- 11.014	- 0.535	...	...
185	... ..	+ 3.7378	- 0.0191	...	- 11.365	- 0.447	...	...
186	... ..	+ 4.1003	- 0.0318	...	- 11.600	- 0.484	...	...
187	Taylor 9464 ...	+ 3.5191	- 0.0141	...	- 11.981	- 0.408	...	...
188	R. P. L. 143 ...	- 8.6122	- 1.2853	...	- 11.987	+ 1.012	...	...
189	2 Delphini ε ...	+ 2.8661	- 0.0013	- 0.001	- 12.046	- 0.330	+ 0.02	2642
190	Taylor 9561 ...	+ 3.8305	- 0.0255	...	- 12.708	- 0.428	...	...
191	50 Cygni α ...	+ 2.0437	+ 0.0021	- 0.000	- 12.720	- 0.226	- 0.00	2679
192	Taylor 9573 ...	+ 4.1454	- 0.0390	...	- 12.851	- 0.460	...	...
193	2 Aquarii ε ...	+ 3.2505	- 0.0084	- 0.000	- 12.983	- 0.356	+ 0.03	2681
194	Stone 11091 ...	+ 4.3670	- 0.0517	...	- 13.206	- 0.475	...	...
195	Stone 11115 ...	+ 3.6105	- 0.0192	...	- 13.364	- 0.388	...	...
196	32 Vulpeculæ ...	+ 2.5559	+ 0.0026	- 0.002	- 13.523	- 0.270	+ 0.00	2700
197	Lalande 40458 ...	+ 3.2482	- 0.0087	...	- 13.597	- 0.434	...	...
198	76 Draconis ...	- 4.0051	- 0.5286	+ 0.014	- 13.607	+ 0.435	- 0.01	2754
199	Stone 11191 ...	+ 4.1674	- 0.0464	...	- 14.073	- 0.429	...	...
200	23 Capricorni θ ...	+ 3.3747	- 0.0128	+ 0.004	- 14.144	- 0.344	+ 0.05	2733
201	... ..	+ 4.7746	- 0.0859	...	- 14.199	- 0.488	...	...
202	24 Capricorni A. ...	+ 3.5220	- 0.0178	- 0.005	- 14.201	- 0.358	+ 0.02	2737
203	61 Cygni -1st ...	+ 2.3346	+ 0.0044	+ 0.344	- 14.281	- 0.233	- 3.23	2744
204	61 Cygni -2nd ...	+ 2.3348	+ 0.0044	+ 0.350	- 14.284	- 0.233	- 3.03	2745
205	... ..	+ 3.2472	- 0.0096	...	- 14.454	- 0.323	...	...
206	64 Cygni ζ ...	+ 2.5512	+ 0.0038	- 0.002	- 14.666	- 0.248	+ 0.07	2780
207	5 Cephei α ...	+ 1.4148	- 0.0071	+ 0.021	- 15.124	- 0.130	- 0.03	2786
208	22 Aquarii β ...	+ 3.1613	- 0.0071	- 0.001	- 15.664	- 0.282	+ 0.00	2797
209	... ..	+ 3.5304	- 0.0223	...	- 16.054	- 0.303	...	...
210	ε Indi ...	+ 4.1558	- 0.0724	+ 0.480	- 17.114	- 0.313	+ 2.45	Stone

Mean Positions of Stars for 1884, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
211	34 Aquarii α	3.2	...	21	59	40.58	90	52	59.6	1	0.73
212	48 Aquarii γ	4.1	...	22	15	39.87	91	58	18.2	10	0.82
213	R. P. L. 150	5.5	...	22	22	28.00	4	28	35.3	1	0.75
214	R. P. L. 151	6.9	...	22	22	48.81	4	21	42.9	2	0.75
215	R. P. L. 153	7.6	...	22	26	42.58	2	30	27.7	2	0.52
216	42 Pegasi ζ	3.6	...	22	35	40.53	79	46	26.9	2	0.75
217	73 Aquarii λ	3.8	...	22	46	33.68	98	11	49.0	14	0.78
218	24 Pis. Aus. α (<i>Komalhaut</i>)	1.3	...	22	51	14.28	120	14	12.3	2	0.87
219	6 Piscium γ	3.8	...	23	11	9.09	87	21	5.7	2	0.76
220	8 Piscium κ	5.0	...	23	20	59.09	89	22	48.9	1	0.76
221	17 Piscium ι	4.3	...	23	33	58.95	85	0	10.3	1	0.77
222	28 Piscium ω	4.2	...	23	53	21.30	83	46	44.9	1	0.77

213.—Groombridge 3820.

214.—Groombridge 3824.

215.—Carrington 3406.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
211	34 Aquarii α ...	+ 3 ^h 08 ^m 27 ^s	- 0 ^h 00 ^m 41 ^s	- 0 ^h 00 ^m 1 ^s	- 17 ^h 35 ^m 9 ^s	- 0 ^h 21 ^m 9 ^s	- 0 ^h 00 ^m 0 ^s	2890
212	48 Aquarii γ ...	+ 3 ^h 09 ^m 26 ^s	- 0 ^h 00 ^m 42 ^s	+ 0 ^h 00 ^m 7 ^s	- 18 ^h 01 ^m 1 ^s	- 0 ^h 10 ^m 1 ^s	- 0 ^h 02 ^m 2 ^s	2943
213	R. P. L. 150 ...	- 3 ^h 98 ^m 33 ^s	- 1 ^h 24 ^m 83 ^s	+ 0 ^h 05 ^m 2 ^s	- 18 ^h 26 ^m 2 ^s	+ 0 ^h 24 ^m 8 ^s	- 0 ^h 04 ^m 4 ^s	2993
214	R. P. L. 151 ...	- 4 ^h 13 ^m 89 ^s	- 1 ^h 31 ^m 84 ^s	+ 0 ^h 02 ^m 5 ^s	- 18 ^h 27 ^m 7 ^s	+ 0 ^h 25 ^m 6 ^s	- 0 ^h 01 ^m 1 ^s	2997
215	R. P. L. 153 ...	- 9 ^h 01 ^m 26 ^s	- 4 ^h 29 ^m 06 ^s	...	- 18 ^h 41 ^m 5 ^s	+ 0 ^h 52 ^m 8 ^s	...	...
216	42 Pegasi ζ ...	+ 2 ^h 98 ^m 56 ^s	+ 0 ^h 00 ^m 23 ^s	+ 0 ^h 00 ^m 4 ^s	- 18 ^h 71 ^m 1 ^s	- 0 ^h 14 ^m 9 ^s	+ 0 ^h 02 ^m 2 ^s	2992
217	73 Aquarii λ ...	+ 3 ^h 13 ^m 30 ^s	- 0 ^h 00 ^m 63 ^s	- 0 ^h 00 ^m 2 ^s	- 19 ^h 03 ^m 3 ^s	- 0 ^h 13 ^m 7 ^s	- 0 ^h 04 ^m 4 ^s	3019
218	24 Piscis Australis α ...	+ 3 ^h 30 ^m 27 ^s	- 0 ^h 02 ^m 10 ^s	+ 0 ^h 02 ^m 3 ^s	- 19 ^h 15 ^m 8 ^s	- 0 ^h 13 ^m 5 ^s	+ 0 ^h 16 ^m 6 ^s	3032
219	6 Piscium γ ...	+ 3 ^h 05 ^m 9 ^s 2	+ 0 ^h 00 ^m 05 ^s 2	+ 0 ^h 04 ^m 9 ^s	- 19 ^h 00 ^m 0 ^s	- 0 ^h 08 ^m 7 ^s	- 0 ^h 02 ^m 2 ^s	3082
220	8 Piscium κ ...	+ 3 ^h 06 ^m 9 ^s 0	0 ^h 00 ^m 00 ^s	+ 0 ^h 00 ^m 4 ^s	- 19 ^h 76 ^m 4 ^s	- 0 ^h 06 ^m 9 ^s	+ 0 ^h 10 ^m 0 ^s	3116
221	17 Piscium ϵ ...	+ 3 ^h 05 ^m 9 ^s 1	+ 0 ^h 00 ^m 30 ^s	+ 0 ^h 02 ^m 3 ^s	- 19 ^h 92 ^m 5 ^s	- 0 ^h 04 ^m 2 ^s	+ 0 ^h 44 ^m 4 ^s	3148
222	28 Piscium ω ...	+ 3 ^h 06 ^m 8 ^s 1	+ 0 ^h 00 ^m 47 ^s	+ 0 ^h 00 ^m 9 ^s	- 20 ^h 04 ^m 5 ^s	- 0 ^h 00 ^m 5 ^s	+ 0 ^h 11 ^m 1 ^s	3191

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1885

Separate Results of Madras Meridian Circle Observations in 1885.

Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.
1		<i>R. P. L. 10.</i>				6		<i>57 Eridani μ</i>			
Jan. 1	...	0 51. 56.17	3	1 35 33.5	M	Jan. 10	...	4 39 45.14	...	93 27 58.0	R
						20	...	39 45.12	...	27 59.4	R
						28	...	39 45.14	...	28 2.7	R
						26	...	39 45.11	...	27 58.7	R
						29	...	39 45.16	...	27 58.5	R
						31	...	39 45.13	...	27 59.5	R
						Feb. 3	...	39 45.29	...	27 59.1	M
						6	...	39 45.20	...	28 0.7	M
						9	...	39 45.15	...	27 58.4	M
						10	...	39 45.14	...	27 57.9	M
2		<i>43 Andromedæ β</i>				7		<i>R. P. L. 37.</i>			
Jan. 1	...	1 3 17.68	...	54 59 20.9	M	Jan. 8	...	4 51 8.19	3	4 11 38.9	R
						14	...	51 8.48	3	11 39.1	R
						17	...	51 8.33	3	11 37.9	R
						20	...	51 8.41	3	11 39.1	R
						26	...	51 8.02	3	11 39.1	R
						29	...	51 8.30	3	11 37.9	R
						Feb. 6	...	51 8.41	3	11 39.4	M
						10	...	51 8.16	3	11 38.1	M
						14	...	51 8.76	3	11 38.2	M
						20	...	51 8.91	3	11 38.6	M
3		<i>1 Tauri α, Var. 5.</i>				8		<i>34 Orionis δ, Var. 1.</i>			
Jan. 1	...	3 18 37.50	...	81 22 35.3	M	Jan. 23	...	5 26 7.82	...	90 23 6.2	R
2	...	18 37.49	...	22 35.7	M	29	...	26 7.83	...	23 4.9	R
5	...	18 37.60	...	22 35.5	R	Feb. 3	...	26 7.81	...	23 6.3	M
8	...	18 37.62	...	22 34.6	R	6	...	26 7.91	...	23 4.1	M
14	...	18 37.56	...	22 35.2	R	9	...	26 7.91	...	23 5.6	M
17	...	18 37.50	...	22 34.8	R	11	...	26 8.00	...	23 4.7	M
20	...	18 37.56	...	22 36.5	R	12	...	26 7.84	...	23 5.6	M
Dec. 28	...	18 37.53	...	22 36.8	R	13	...	26 7.91	...	23 5.8	M
						14	...	26 7.91	...	23 4.9	M
						17	...	26 7.98	...	23 4.5	M
4		<i>18 Eridani ϵ</i>				9		<i>46 Orionis ϵ</i>			
Jan. 1	...	3 27 30.76	...	99 50 53.1	M	Jan. 26	...	5 30 22.61	...	91 16 35.3	R
2	...	27 30.74	...	50 55.1	M	31	...	30 22.67	...	16 37.0	R
5	...	27 30.62	...	50 53.7	R	Feb. 10	...	30 22.67	...	16 35.9	M
8	...	27 30.62	...	50 52.7	R	11	...	30 22.61	...	16 37.0	M
10	...	27 30.71	...	50 53.1	R						
14	...	27 30.67	...	50 53.6	R						
17	...	27 30.75	...	50 53.0	R						
20	...	27 30.73	...	50 53.6	R						
Dec. 28	...	27 30.75	...	50 54.6	R						
5		<i>37 Tauri Λ.¹</i>									
Jan. 2	...	3 57 53.79	...	68 14 0.7	M						
5	...	57 53.79	...	13 59.8	R						
8	...	57 53.77	...	13 59.6	R						
10	...	57 53.77	...	13 58.5	R						
14	...	57 53.78	...	13 59.6	R						
17	...	57 53.77	...	13 59.1	R						
23	...	57 53.81	...	14 0.9	R						
26	...	57 53.80	...	13 59.3	R						
29	...	57 53.78	...	13 59.6	R						

Separate Results of Madras Meridian Circle Observations in 1885.

Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.
Feb. 12	...	5 30 22.70	...	91 16 37.2	M	13 <i>B. D + 28.1247.</i>					
14	...	30 22.65	...	16 35.8	M	Feb. 10	8.5	6 42 3.56	...	61 19 49.8	M
16	...	30 22.56	...	16 36.9	M	11	...	42 3.53	...	19 49.9	M
17	...	30 22.52	...	16 35.8	M	12	8.5	42 3.57	...	19 51.6	M
18	...	30 22.65	...	16 35.1	R	17	8.5	42 3.23	...	19 50.0	M
19	...	30 22.60	...	16 37.8	M	18	8.5	42 3.29	...	19 49.7	R
10 <i>53 Orionis κ</i>						14 <i>W. B. N. VI. 1239.</i>					
Jan. 31	...	5 42 18.09	...	99 42 42.1	R	Feb. 13	8.5	6 42 26.33	...	61 38 10.0	M
Feb. 3	...	42 18.02	...	42 42.8	M	14	8.5	42 26.38	...	33 10.0	M
6	...	42 18.01	...	42 43.0	M	16	8.5	42 26.60	...	33 12.9	N
9	...	42 18.06	...	42 44.1	M	19	8.5	42 26.82	...	33 13.4	M
10	...	42 18.08	...	42 40.8	M	20	8.5	42 26.84	...	33 12.7	M
11	...	42 18.02	...	42 42.3	M	15 <i>51 Cephei (Hev.).</i>					
12	...	42 18.07	...	42 43.1	M	Feb. 26	...	6 46 16.62	3	2 46 34.1	M
13	...	42 18.00	...	42 42.7	M	Mar. 3	...	46 16.21	3	46 32.9	R
14	...	42 18.05	...	42 42.8	M	6	...	46 16.87	3	46 35.0	R
16	...	42 18.21	...	42 48.9	M	12	...	46 16.62	3	46 32.6	R
11 <i>7 Geminorum η</i>						20	...	46 15.85	3	46 32.0	M
Feb. 13	...	6 7 56.21	...	67 27 41.7	M	23	...	46 16.23	3	46 32.9	R
16	...	7 56.11	...	27 41.4	M	26	...	46 15.89	3	46 32.4	R
17	...	7 56.13	...	27 38.9	M	28	...	46 16.54	3	46 34.5	R
18	...	7 56.14	...	27 38.8	R	30	...	46 15.77	3	46 31.6	R
19	...	7 56.13	...	27 37.3	M	Apl. 1	...	46 15.50	2	46 32.7	R
20	...	7 56.10	...	27 38.3	M	51 Cephei (Hev.)—s.p.					
23	...	7 56.12	...	27 36.4	M	Aug. 17	...	6 46 16.07	3	2 46 34.0	R
26	...	7 56.17	...	27 36.4	M	Sep. 7	...	46 16.60	3	46 34.8	R
28	...	7 56.13	...	27 36.5	M	12 <i>31 Geminorum ξ</i>					
Mar. 9	...	7 56.11	...	27 38.4	R	Feb. 23	...	6 38 50.12	...	76 58 54.6	M
12 <i>31 Geminorum ξ</i>						26	...	38 50.15	...	58 55.3	M
Feb. 23	...	6 38 50.12	...	76 58 54.6	M	28	...	38 50.12	...	58 53.4	M
26	...	38 50.15	...	58 55.3	M	Mar. 9	...	38 50.16	...	58 53.2	R
28	...	38 50.12	...	58 53.4	M	12	...	38 50.11	...	58 52.8	R
Mar. 9	...	38 50.16	...	58 53.2	R	14	...	38 50.12	...	58 52.6	R
12	...	38 50.11	...	58 52.8	R	17	...	38 50.12	...	58 53.1	M
14	...	38 50.12	...	58 52.6	R	20	...	38 50.05	...	58 53.1	M
17	...	38 50.12	...	58 53.1	M	23	...	38 50.18	...	58 52.7	R
20	...	38 50.05	...	58 53.1	M	26	...	38 50.17	...	58 52.3	R
23	...	38 50.18	...	58 52.7	R	16 <i>14 Canis Majoris θ</i>					
26	...	38 50.17	...	58 52.3	R	Feb. 18	...	6 48 50.77	...	101 53 42.4	R
12 <i>31 Geminorum ξ</i>						19	...	48 50.82	...	53 43.2	M
Feb. 23	...	6 48 50.77	...	101 53 42.4	R	20	...	48 50.81	...	53 43.8	M
26	...	48 50.82	...	53 43.2	M	23	...	48 50.79	...	53 42.9	M
28	...	48 50.81	...	53 43.8	M	28	...	48 50.80	...	53 44.3	M
Mar. 9	...	48 50.79	...	53 42.9	M	Mar. 9	...	48 50.78	...	53 43.2	R
12	...	48 50.80	...	53 44.3	M	14	...	48 50.78	...	53 41.5	R
14	...	48 50.78	...	53 43.2	R	17	...	48 50.72	...	53 43.3	M
17	...	48 50.78	...	53 41.5	R	28	...	48 50.85	...	53 48.6	R
20	...	48 50.72	...	53 43.3	M	Apl. 1	...	48 50.76	...	53 42.4	R
23	...	48 50.85	...	53 48.6	R						
26	...	48 50.76	...	53 42.4	R						

Separate Results of Madras Meridian Circle Observations in 1885.

Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.
17 <i>3 Canis Minoris β</i>						Apl. 17	...	8 36 37.74	...	68 7 7.9	M
Feb. 26	...	7 20 54.75	...	81 28 48.7	M	21	...	36 37.62	...	7 6.9	M
Mar. 3	...	20 54.93	...	28 47.0	R	24	...	36 37.63	...	7 7.1	M
6	...	20 54.90	...	28 45.9	R	28	...	36 37.85	...	7 6.3	M
14	...	20 54.83	...	28 45.4	R	21 <i>65 Cancri α</i>					
17	...	20 54.90	...	28 43.3	M	Apl. 11	...	8 52 11.79	...	77 41 52.1	M
20	...	20 54.91	...	28 46.4	M	14	...	52 11.73	...	41 52.1	M
23	...	20 54.83	...	28 46.3	R	17	...	52 11.78	...	41 52.8	M
26	...	20 54.77	...	28 46.4	R	21	...	52 11.84	...	41 52.2	M
28	...	20 54.78	...	28 46.4	R	24	...	52 11.85	...	41 51.8	M
30	...	20 54.89	...	28 46.3	R	28	...	52 11.73	...	41 52.2	M
18 <i>ξ Argūs.</i>						22 <i>14 Leonis ο</i>					
Mar. 3	...	7 44 27.42	...	114 34 17.9	R	Apl. 17	...	9 35 0.72	...	79 35 7.4	M
6	...	44 27.43	...	34 19.4	R	21	...	35 0.78	...	35 6.6	M
12	...	44 27.48	...	34 19.0	R	24	...	35 0.76	...	35 7.2	M
23	...	44 27.42	...	34 17.8	R	28	...	35 0.67	...	35 6.7	M
26	...	44 27.47	...	34 17.6	R	23 <i>R. P. L. 72.</i>					
28	...	44 27.47	...	34 18.2	R	Apl. 14	...	10 12 46.74	3	5 9 53.0	M
30	...	44 27.40	...	34 15.7	R	17	...	12 46.44	3	9 53.8	M
Apl. 1	...	44 27.46	...	34 18.3	R	21	...	12 46.27	3	9 50.5	M
3	...	44 27.60	...	34 17.8	R	24	...	12 46.18	3	9 52.3	M
8	...	44 27.53	...	34 19.6	M	28	...	12 46.34	3	9 52.2	M
19 <i>17 Cancri β</i>						May 1	...	12 46.73	3	9 53.2	R
Mar. 3	...	8 10 16.65	...	80 27 38.5	R	9	...	12 46.25	3	9 52.8	R
6	...	10 16.67	...	27 38.9	R	13	...	12 46.12	3	9 52.3	R
12	...	16 16.69	...	27 39.2	R	<i>R. P. L. 72—s.p.</i>					
20	...	10 16.66	...	27 37.7	M	Sep. 25	...	10 12 45.57	3	5 9 53.8	R
30	...	10 16.69	...	27 38.2	R	Oct. 7	...	12 46.70	3	9 54.6	M
Apl. 1	...	10 16.74	...	27 38.3	R	24 <i>42 Hydræ μ</i>					
3	...	10 16.73	...	27 37.4	R	May 1	...	10 20 31.69	...	106 14 57.9	R
8	...	10 16.59	...	27 38.2	M	5	...	20 31.69	...	14 58.9	R
11	...	10 16.64	...	27 37.5	M	7	...	20 31.70	...	14 57.8	R
14	...	10 16.71	...	27 38.2	M	9	...	20 31.71	...	14 55.9	R
20 <i>43 Cancri γ</i>						11	...	20 31.69	...	14 58.1	R
Apl. 3	...	8 36 37.58	...	68 7 7.5	R	18	...	20 31.68	...	14 57.4	R
8	...	36 37.80	...	7 7.0	M						
11	...	36 37.78	...	7 7.9	M						
14	...	36 37.77	...	7 7.8	M						

Separate Results of Madras Meridian Circle Observations in 1885.

Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1885. h. m. s.	No. of Wires.	Mean Polar Distance 1885. ° ' "	Observer.
May 15	...	10 20 31.60	...	106 14 57.6	R	29 7 <i>Corvi</i> δ^2					
18	...	20 31.66	...	14 57.8	R	May 25	...	12 23 54.90	...	105 52 20.8	R
20	...	20 31.73	...	14 56.8	R	28	...	23 54.89	...	52 31.0	R
22	...	20 31.69	...	14 56.9	R	30	...	23 54.94	...	52 20.9	R
25 58 <i>Leonis</i> α .						June 2	...	23 54.90	...	52 34.7	M
May 1	...	10 54 37.29	...	85 45 55.0	R	5	...	23 54.94	...	52 20.7	M
7	...	54 37.27	...	45 55.3	R	30 43 <i>Virginis</i> δ					
9	...	54 37.28	...	45 53.5	R	June 2	...	12 49 48.67	...	85 58 37.1	M
11	...	54 37.29	...	45 54.3	R	5	...	49 48.68	...	58 36.1	M
13	...	54 37.29	...	45 52.3	R	31 <i>Anon.</i>					
15	...	54 37.28	...	45 55.1	R	May 5	8.7	13 57 30.50	...	90 4 23.7	R
18	...	54 37.27	...	45 54.8	R	9	8.7	57 30.57	...	4 24.4	R
20	...	54 37.28	...	45 54.3	R	11	8.7	57 30.61	...	4 28.9	R
22	...	54 37.28	...	45 55.2	R	15	8.7	57 30.62	...	4 24.3	R
25	...	54 37.28	...	45 54.0	R	22	8.7	57 30.57	...	4 23.6	R
26 84 <i>Leonis</i> τ						32 <i>Lalande</i> 25863.					
May 5	...	11 22 1.42	...	86 30 37.0	R	May 7	9.0	18 59 21.46	...	90 21 51.5	R
7	...	22 1.37	...	30 37.6	R	13	9.0	59 21.58	...	21 51.6	R
11	...	22 1.36	...	30 36.1	R	18	9.0	59 21.48	...	21 51.7	R
20	...	22 1.35	...	30 36.6	R	20	9.0	59 21.43	...	21 51.7	R
28	...	22 1.41	...	30 38.0	R	25	9.0	59 21.40	...	21 52.2	R
30	...	22 1.40	...	30 36.7	R	33 <i>R. P. L.</i> 110.— <i>s.p.</i>					
June 2	...	22 1.42	...	30 38.3	M	Jan. 1	...	14 52 29.66	3	3 34 31.7	M
5	...	22 1.39	...	30 38.3	M	8	...	52 29.08	3	34 31.0	R
27 8 <i>Virginis</i> π						14	...	52 29.47	3	34 31.9	R
May 1	...	11 54 58.79	...	82 44 38.9	R	17	...	52 29.35	3	34 32.7	R
5	...	54 58.78	...	44 38.5	R	20	...	52 29.34	3	34 32.3	R
9	...	54 58.78	...	44 38.2	R	34 35 <i>Ophiuchi</i> η					
13	...	54 58.80	...	44 39.1	R	Aug. 5	...	17 3 47.05	...	105 34 51.8	R
15	...	54 58.82	...	44 38.8	R	7	...	3 47.02	...	34 51.2	R
18	...	54 58.84	...	44 38.7	R	15	...	3 46.96	...	34 53.4	R
22	...	54 58.81	...	44 38.9	R	17	...	3 46.99	...	34 51.8	R
25	...	54 58.83	...	44 38.0	R	20	...	3 47.05	...	34 51.7	R
28	...	54 58.83	...	44 38.9	R	28 <i>R. P. L.</i> 92.					
30	...	54 58.81	...	44 38.3	R	May 22	...	12 13 27.52	3	2 55 27.3	R
28 <i>R. P. L.</i> 92.						25	...	13 27.56	3	55 25.7	R

Separate Results of Madras Meridian Circle Observations in 1885.

Number and Date.	Magnitude.	Mean Right Ascension 1885.			No of Wires.	Mean Polar Distance 1885.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1885.			No. of Wires.	Mean Polar Distance 1885.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
35 <i>Anon.</i>										40 <i>58 Serpentis η</i>									
Aug. 5	7.5	17	16	57.58	...	126	21	1.2	R	Sep. 7	...	18	15	21.51	...	92	55	40.0	R
7	7.5		16	57.68	...		21	0.9	R										
15	7.5		16	57.92	...		21	0.3	R										
17	7.5		16	57.81	...		20	59.9	R										
20	7.5		16	57.56	...		21	1.1	R										
36 <i>Anon.</i>										41 <i>22 Sagittarii λ</i>									
Aug. 15	8.5	17	22	41.45	...	180	46	48.4	R	Sep. 7	...	18	20	52.32	...	115	29	1.3	R
17	8.5		22	41.45	...		46	47.6	R										
20	8.5		22	41.55	...		46	49.0	R										
37 <i>60 Ophiuchi β</i>										42 <i>13 Aquilæ ϵ</i>									
Aug. 5	...	17	37	47.37	...	85	23	3.2	R	Sep. 7	...	18	54	24.16	...	75	5	12.3	R
7	...		37	47.42	...		23	2.8	R										
15	...		37	47.41	...		23	2.1	R										
17	...		37	47.81	...		23	59.1	R										
20	...		37	47.34	...		23	0.4	R										
38 <i>72 Ophiuchi.</i>										43 <i>λ Ursæ Minoris.</i>									
Aug. 5	...	18	1	53.77	...	80	27	5.8	R	Sep. 25	...	19	38	53.66	3	1	2	40.1	R
7	...		1	53.77	...		27	4.4	R										
17	...		1	53.90	...		27	4.1	R										
20	...		1	53.82	...		27	5.2	R										
39 <i>23 Ursæ Minoris δ</i>										<i>λ Ursæ Minoris—s.p.</i>									
Aug. 17	...	18	9	24.50	3	3	23	19.6	R	Mar. 20	...	19	38	53.49	3	1	2	41.8	M
Sep. 7	...		9	24.74	3		23	22.1	R	23	...		38	54.45	3		2	41.0	R
										26	...		38	54.17	3		2	40.8	R
										28	...		38	54.20	3		2	40.4	R
										30	...		38	54.39	3		2	40.3	R
44 <i>53 Aquilæ α, Altair.</i>										45 <i>65 Aquilæ θ</i>									
Aug. 17	...	18	9	24.50	3	3	23	19.6	R	Sep. 12	...	19	45	10.28	...	81	26	3.9	R
Sep. 7	...		9	24.74	3		23	22.1	R	15	...		45	10.29	...		26	3.8	R
23 Ursæ Minoris δ—s.p.																			
Jan. 26	...	18	9	24.38	3	3	23	21.2	R			20	5	22.25	...	9	9	41.3	R
29	...		9	24.62	3		23	21.8	R	Sep. 15	...		5	22.29	...		9	42.4	R
Feb. 6	...		9	24.72	3		23	22.2	M	18	...		5	22.21	...		9	40.9	R
10	...		9	24.18	3		23	22.5	M	25	...		5	22.23	...		9	41.8	R
14	...		9	25.07	3		23	23.2	M	29	...		5	22.28	...		9	41.8	R
20	...		9	25.08	3		23	21.8	M	Oct. 1	M		5	22.24	...		9	41.0	M
26	...		9	25.04	3		23	22.6	M	3	M		5	22.27	...		9	40.5	M
Mar. 3	...		9	24.47	3		23	23.8	R	5	M		5	22.32	...		9	39.1	M
6	...		9	25.30	3		23	20.9	R	7	M		5	22.29	...		9	42.9	M
12	...		9	24.95	3		23	24.0	R	9	M		5	22.23	...		9	42.7	M

Separate Results of Madras Meridian Circle Observations in 1885.

Number and Date.	Magnitude.	Mean Right Ascension 1885.	No. of Wires.	Mean Polar Distance 1885.	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1885.	No. of Wires.	Mean Polar Distance 1885.	Observer.
		<i>h. m. s.</i>		<i>° ' "</i>				<i>h. m. s.</i>		<i>° ' "</i>	
46 <i>2 Delphini ε</i>						49 <i>48 Aquarii γ</i>					
Sep. 12	...	20 27 43.12	...	79 5 13.2	R	Oct. 16	...	22 15 42.88	...	91 58 0.0	M
15	...	27 48.06	...	5 12.8	R	19	...	15 42.89	...	57 58.4	M
18	...	27 43.11	...	5 11.7	R	21	...	15 42.95	...	58 0.1	M
25	...	27 43.11	...	5 13.0	R	23	...	15 43.03	...	58 1.3	M
29	...	27 43.12	...	5 12.4	R	50 <i>73 Aquarii λ</i>					
(Oct. 1	...	27 43.15	...	5 11.5	M	Oct. 14	...	22 46 36.80	...	98 11 28.1	M
3	...	27 48.07	...	5 10.3	M	21	...	46 36.84	...	11 28.8	M
5	...	27 43.01	...	5 11.8	M	23	...	46 36.71	...	11 29.0	M
7	...	27 43.03	...	5 12.1	M	51 <i>R. P. L. 155.</i>					
9	...	27 43.00	...	5 13.5	M	Oct. 7	...	23 24 19.45	3	4 12 56.4	M
47 <i>2 Aquarii ε</i>						<i>R. P. L. 155.—s.p.</i>					
Sep. 18	...	20 41 26.99	...	99 54 56.4	R	Apl. 14	...	23 24 19.54	3	4 13 0.0	M
25	...	41 26.96	...	54 56.6	R	17	...	24 19.12	3	12 58.3	M
29	...	41 26.90	...	54 56.6	R	21	...	24 19.00	3	12 59.5	M
Oct. 3	...	41 26.96	...	54 57.2	M	24	...	24 18.82	3	12 57.6	M
5	...	41 26.98	...	54 58.0	M	28	...	24 19.11	3	12 58.1	M
7	...	41 26.98	...	54 56.8	M	May 1	...	24 19.51	3	12 57.8	R
9	...	41 27.08	...	54 57.5	M	9	...	24 19.07	3	12 58.7	R
14	...	41 27.10	...	54 57.9	M	13	...	24 18.87	3	12 55.2	R
16	...	41 27.06	...	54 56.1	M	22	...	24 18.40	3	12 56.2	R
19	...	41 27.05	...	54 55.8	M	25	...	24 18.68	3	12 58.4	R
48 <i>23 Capricorni θ</i>											
Oct. 1	...	20 59 28.84	...	107 41 20.1	M						
14	...	59 28.72	...	41 21.2	M						
16	...	59 28.87	...	41 22.1	M						
19	...	59 28.85	...	41 18.4	M						
21	...	59 28.82	...	41 21.1	M						
23	...	59 28.86	...	41 22.1	M						

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1885

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1885, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
1	R. P. L. 10 ...	6.6	...	0	51	56.17	1	35	33.5	1	0.00
2	43 Andromedæ β ...	2.2	...	1	3	17.68	54	59	20.9	1	0.00
3	1 Tauri α , Var. 5 ...	Var.	...	3	18	37.55	81	22	35.6	8	0.14
4	18 Eridani ϵ ...	3.7	...	3	27	30.71	99	50	53.6	9	0.13
5	37 Tauri A ¹ ...	4.4	...	3	57	53.78	68	13	59.7	9	0.04
6	57 Eridani μ ...	4.3	...	4	39	45.16	98	27	59.3	10	0.07
7	R. P. L. 37 ...	7.0	...	4	51	8.40	4	11	38.6	10	0.07
8	34 Orionis δ , Var. 1 ...	Var.	...	5	26	7.89	90	23	5.3	10	0.10
9	46 Orionis ϵ ...	1.8	...	5	30	22.62	91	16	36.4	10	0.11
10	53 Orionis κ ...	2.2	...	5	42	18.06	99	42	42.8	10	0.11
11	7 Geminorum η ...	3.5	...	6	7	56.14	67	27	38.4	10	0.14
12	31 Geminorum ξ ...	3.4	...	6	38	50.13	76	58	53.3	10	0.19
13	B. D. + 28. 1247 ...	8.5	4	6	42	3.44	61	19	50.2	5	0.12
14	W. B. N. VI. 1239 ...	8.5	5	6	42	26.38	61	33	11.8	5	0.13
15	51 Cephei (<i>Hev.</i>) ...	5.3	...	6	46	16.24	2	46	33.3	12	0.28
16	14 Canis Majoris θ ...	4.2	...	6	48	50.79	101	53	43.1	10	0.18
17	3 Canis Minoris β ...	3.1	...	7	20	54.85	81	28	46.7	10	0.20
18	ξ Argûs ...	3.4	...	7	44	27.47	114	34	18.1	10	0.22
19	17 Cancri β ...	3.8	...	8	10	16.68	80	27	38.2	10	0.23
20	43 Cancri γ ...	4.8	...	8	36	37.72	68	7	7.3	8	0.29
21	65 Cancri α ...	4.3	...	8	52	11.79	77	41	52.2	6	0.30
22	14 Leonis α ...	3.8	...	9	35	0.73	79	35	7.0	4	0.31
23	R. P. L. 72 ...	6.0	...	10	12	46.33	5	9	52.9	10	0.40
24	42 Hydræ μ ...	4.1	...	10	20	31.69	106	14	57.5	10	0.36
25	58 Leonis δ ...	5.0	...	10	54	37.28	85	45	54.4	10	0.36
26	84 Leonis τ ...	5.1	...	11	22	1.39	86	30	37.3	8	0.38
27	8 Virginis π ...	4.4	...	11	54	58.81	82	44	38.6	10	0.37
28	R. P. L. 92 ...	6.7	...	12	13	27.54	2	55	26.5	2	0.39
29	7 Corvi δ^2 ...	3.1	...	12	23	54.91	105	52	31.0	5	0.41
30	43 Virginis δ ...	3.7	...	12	49	48.68	85	58	36.6	2	0.42
31	... ..	8.7	5	13	57	30.57	90	4	24.0	5	0.36
32	Lalande 25863 ...	9.0	5	13	59	21.47	90	21	51.7	5	0.37
33	R. P. L. 110 ...	7.0	...	14	52	29.38	3	34	31.9	5	0.03
34	35 Ophiuchi η ...	2.6	...	17	3	47.01	105	34	52.0	5	0.61
35	... ..	7.5	5	17	16	57.71	126	21	0.7	5	0.61

1.—Groombridge 144.
28.—Groombridge 1871.

13—14.—Comparison stars for Vera in 1885.
31—32.—Comparison stars for Sylvia in 1885.
35.—Comparison star for comet in 1884.

23.—Groombridge 1620.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
1	R. P. L. 10 ...	+ 13·8751	+ 8·4082	+ 0·153	- 19·541	+ 0·403	+ 0·03	65
2	43 Andromedæ β ...	+ 3·3278	+ 0·0286	+ 0·014	- 19·294	+ 0·139	+ 0·08	140
3	1 Tauri α , ...	+ 3·2270	+ 0·0115	- 0·005	- 12·982	+ 0·304	+ 0·07	477
4	18 Eridani ϵ ...	+ 2·8899	+ 0·0055	- 0·068	- 12·379	+ 0·336	- 0·01	493
5	37 Tauri A' ...	+ 3·5322	+ 0·0153	+ 0·005	- 10·186	+ 0·447	+ 0·06	554
6	57 Eridani μ ...	+ 2·9964	+ 0·0055	- 0·000	- 6·879	+ 0·413	+ 0·00	657
7	R. P. L. 37 ...	+ 20·4860	+ 1·4852	...	- 5·935	+ 2·858	...	...
8	34 Orionis δ ...	+ 3·0635	+ 0·0038	- 0·001	- 2·953	+ 0·443	+ 0·01	787
9	46 Orionis ϵ ...	+ 3·0429	+ 0·0035	- 0·002	- 2·585	+ 0·441	- 0·01	809
10	53 Orionis κ ...	+ 2·8442	+ 0·0027	- 0·002	- 1·547	+ 0·414	- 0·00	844
11	7 Geminorum η ...	+ 3·6269	+ 0·0007	- 0·005	+ 0·695	+ 0·529	+ 0·00	900
12	31 Geminorum ξ ...	+ 3·3771	- 0·0017	- 0·009	+ 3·383	+ 0·485	+ 0·20	989
13	B. D. + 28. 1247 ...	+ 3·7911	- 0·0051	...	+ 3·659	+ 0·542	...	...
14	W. B. N. VI. 1239 ...	+ 3·7843	- 0·0051	...	+ 3·693	+ 0·541	...	...
15	51 Cephei (Her.) ...	+ 30·0859	- 2·3086	- 0·040	+ 4·021	+ 4·297	+ 0·05	Gr.
16	14 Canis Majoris θ ...	+ 2·7971	+ 0·0004	- 0·011	+ 4·243	+ 0·397	+ 0·00	1011
17	3 Canis Minoris β ...	+ 3·2604	- 0·0041	- 0·004	+ 6·933	+ 0·444	+ 0·03	1079
18	ξ Argus ...	+ 2·5235	+ 0·0008	- 0·001	+ 8·827	+ 0·327	- 0·02	1132
19	17 Cancri β ...	+ 3·2617	- 0·0072	- 0·004	+ 10·796	+ 0·397	+ 0·04	1180
20	43 Cancri γ ...	+ 3·4887	- 0·0143	- 0·009	+ 12·663	+ 0·390	+ 0·03	1230
21	65 Cancri α ...	+ 3·2854	- 0·0098	+ 0·001	+ 13·639	+ 0·345	+ 0·02	1269
22	14 Leonis α ...	+ 3·2177	- 0·0003	- 0·010	+ 16·173	+ 0·272	+ 0·02	1360
23	R. P. L. 72 ...	+ 9·7429	- 1·5821	- 0·096	+ 17·898	+ 0·633	- 0·04	1399
24	42 Hydrae μ ...	+ 2·9085	+ 0·0040	- 0·010	+ 18·195	+ 0·171	+ 0·06	1451
25	58 Leonis δ ...	+ 3·1002	- 0·0039	- 0·002	+ 19·243	+ 0·120	+ 0·01	1526
26	84 Leonis τ ...	+ 3·0859	- 0·0020	- 0·001	+ 19·779	+ 0·066	+ 0·01	1570
27	8 Virginis π ...	+ 3·0761	- 0·0022	- 0·003	+ 20·048	+ 0·002	+ 0·02	1618
28	R. P. L. 92 ...	+ 1·5364	+ 0·0034	+ 0·285	+ 20·019	- 0·022	+ 0·02	1656
29	7 Corvi δ^2 ...	+ 3·1120	+ 0·0118	- 0·014	+ 19·444	- 0·055	+ 0·15	1675
30	43 Virginis δ ...	+ 3·0522	+ 0·0025	- 0·034	+ 19·582	- 0·103	+ 0·05	1723
31	... ..	+ 3·0732	+ 0·0075	...	+ 17·475	- 0·228	...	...
32	Lalande 25863 ...	+ 3·0766	+ 0·0077	...	+ 17·395	- 0·230	...	...
33	R. P. L. 110 ...	- 11·5528	+ 2·9880	...	+ 14·637	+ 1·146	...	...
34	35 Ophiuchi η ...	+ 3·4340	+ 0·0073	+ 0·000	+ 4·870	- 0·437	- 0·10	2171
35	... ..	+ 4·0390	+ 0·0106	...	+ 3·743	- 0·581	...	...

Mean Positions of Stars for 1885, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	... ..	8·8	...	17	22	41·48	130	46	48·3	3	0·63
37	60 Ophiuchi β ...	2·9	...	17	37	47·37	85	23	1·5	5	0·63
38	72 Ophiuchi ...	3·8	...	18	1	53·82	80	27	4·9	4	0·61
39	23 Ursæ Minoris δ ...	4·3	...	18	9	24·75	3	23	22·1	12	0·22
40	58 Serpentis η ...	3·4	...	18	15	21·51	92	55	40·0	1	0·68
41	22 Sagittarii λ ...	3·1	...	18	20	52·32	115	29	1·3	1	0·68
42	13 Aquilæ ε ...	4·1	...	18	54	24·16	75	5	12·3	1	0·68
43	λ Ursæ Minoris ...	6·5	...	19	38	54·06	1	2	40·7	6	0·31
44	53 Aquilæ α (<i>Altair</i>) ...	1·0	...	19	45	10·29	81	26	3·9	2	0·70
45	65 Aquilæ θ ...	3·4	...	20	5	22·26	91	9	41·4	10	0·74
46	2 Delphini ε ...	4·1	...	20	27	43·08	79	5	12·2	10	0·74
47	2 Aquarii ε ...	3·8	...	20	41	27·01	99	54	56·9	10	0·76
48	23 Capricorni θ ...	4·3	...	20	59	28·83	107	41	20·8	6	0·79
49	48 Aquarii γ ...	4·1	...	22	15	42·94	91	58	0·0	4	0·80
50	73 Aquarii λ ...	3·8	...	22	46	36·78	98	11	28·8	3	0·80
51	R. P. L. 155 ...	7·0	...	23	24	19·05	4	12	57·8	11	0·37

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
36	... ..	+ 4.2104	+ 0.0111	...	+ 3.251	- 0.606	...	...
37	60 Ophiuchi β ...	+ 2.9650	+ 0.0030	- 0.004	+ 1.940	- 0.431	- 0.17	2229
38	72 Ophiuchi ...	+ 2.8475	+ 0.0019	- 0.006	- 0.166	- 0.415	- 0.09	2275
39	23 Ursæ Minoris δ ...	- 19.4808	- 0.2722	+ 0.026	- 0.823	+ 2.839	- 0.04	2395
40	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.344	- 0.456	+ 0.68	2298
41	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.824	- 0.537	+ 0.20	2310
42	13 Aquilæ ϵ ...	+ 2.7263	+ 0.0004	- 0.005	- 4.716	- 0.885	+ 0.08	2390
43	λ Ursæ Minoris	- 63.5193	- 28.9896	- 0.050	- 8.388	+ 8.418	+ 0.01	2795
44	53 Aquilæ α ...	+ 2.8919	- 0.0014	+ 0.035	- 8.882	- 0.374	- 0.38	2624
45	65 Aquilæ θ ...	+ 3.0956	- 0.0042	- 0.000	- 10.430	- 0.382	- 0.01	2576
46	2 Delphini ϵ ...	+ 2.8664	- 0.0013	- 0.001	- 12.049	- 0.330	+ 0.02	2642
47	2 Aquarii ϵ ...	+ 3.2505	- 0.0084	- 0.000	- 12.987	- 0.356	+ 0.03	2681
48	23 Capricorni θ ...	+ 3.3745	- 0.0128	+ 0.004	- 14.147	- 0.344	+ 0.05	2733
49	48 Aquarii γ ...	+ 3.0926	- 0.0042	+ 0.007	- 18.013	- 0.191	- 0.02	2943
50	73 Aquarii λ ...	+ 3.1330	- 0.0063	- 0.002	- 19.035	- 0.137	- 0.04	3019
51	R. P. L. 155 ...	+ 0.2608	- 0.3314	...	- 19.811	+ 0.003	...	...

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1886

Separate Results of Madras Meridian Circle Observations in 1886.

Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ' "	Observer.
1 43 <i>Andromedæ</i> β						7 37 <i>Tauri</i> A ¹ .					
Dec. 11	...	1 3 20.99	...	54 59 3.7	R	Jan. 7	...	3 57 57.28	...	68 13 49.1	R
2 1 <i>Ursæ Minoris</i> α , <i>Polaris</i> .						26	...	57 57.81	...	13 51.2	M
Dec. 11	...	1 16 55.64	3	1 17 58.3	R	27	...	57 57.87	...	13 53.5	M
24	...	16 58.16	2	17 56.4	R	8 54 <i>Tauri</i> γ					
1 <i>Ursæ Minoris</i> α , <i>Polaris</i> —s.p.						Jan. 19	...	4 13 18.41	...	74 38 54.4	M
June 11	...	1 16 58.29	3	1 17 59.1	M	26	...	13 18.34	...	38 56.8	M
3 110 <i>Piscium</i> σ						27	...	13 18.28	...	38 56.2	M
Jan. 1	...	1 39 22.52	...	81 24 59.2	M	29	...	13 18.35	...	38 56.2	R
Dec. 11	...	39 22.42	...	24 59.2	R	9 57 <i>Eridani</i> μ					
24	...	39 22.44	...	24 58.6	R	Jan. 26	...	4 39 48.11	...	93 27 52.2	M
28	...	39 22.81	...	24 55.9	M	27	...	39 48.17	...	27 52.5	M
4 43 <i>Arietis</i> σ						29	...	39 48.08	...	27 53.3	R
Jan. 15	...	2 45 11.92	...	75 23 14.5	R	Feb. 6	...	39 48.23	...	27 54.4	M
Dec. 11	...	45 11.92	...	23 18.0	R	13	...	39 48.18	...	27 51.3	M
24	...	45 11.88	...	23 16.7	R	15	...	39 48.10	...	27 51.1	M
28	...	45 12.01	...	23 16.2	M	10 R. P. L. 37.					
5 1 <i>Tauri</i> σ , <i>Var. 5</i> .						Jan. 1	...	4 51 28.18	3	4 11 31.4	M
Jan. 1	...	3 18 40.62	...	81 22 24.5	M	29	...	51 28.07	7	11 32.9	R
7	...	18 40.73	...	22 22.1	R	30	...	51 28.55	7	11 31.7	R
15	...	18 40.77	...	22 21.6	R	Feb. 1	...	51 28.25	7	11 30.4	R
19	...	18 40.74	...	22 22.8	R	Dec. 28	...	51 29.00	3	11 33.2	M
Dec. 24	...	18 40.74	...	22 25.3	R	11 19 <i>Orionis</i> β , <i>Rigel</i> .					
28	...	18 40.73	...	22 22.4	M	Jan. 24	...	5 9 3.48	...	98 20 2.2	R
6 18 <i>Eridani</i> ϵ						30	...	9 3.54	...	20 5.0	R
Jan. 1	...	3 27 38.53	...	99 50 40.1	M	Feb. 1	...	9 3.57	...	20 1.7	R
7	...	27 38.54	...	50 41.1	R	12 R. P. L. 40.					
15	...	27 38.48	...	50 40.9	R	Jan. 29	...	5 25 32.63	7	4 51 51.5	R
19	...	27 38.50	...	50 38.3	R	30	...	25 33.01	7	51 50.2	R
29	...	27 38.60	...	50 43.1	R	Feb. 1	...	25 31.75	7	51 50.0	R

Separate Results of Madras Meridian Circle Observations in 1886.

Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ' "	Observer.
13 34 Orionis δ , Var. 1.						Feb. 6	...	6 46 48.96	7	2 46 42.6	M
Jan. 24	...	5 26 11.00	...	90 23 2.0	R	13	...	46 45.88	7	46 38.9	M
Feb. 6	...	26 10.86	...	23 4.5	M	15	...	46 46.87	7	46 37.7	M
13	...	26 10.93	...	23 1.0	M	17	...	46 46.14	7	46 38.4	M
15	...	26 10.95	...	23 2.2	M	22	...	46 44.42	7	46 38.8	M
17	...	26 10.98	...	23 1.6	M	51 Cephei (Hev.)—s.p.					
20	...	26 10.99	...	23 0.6	M	Aug. 4	...	6 46 46.33	3	2 46 35.8	R
22	...	26 11.05	...	23 1.4	M	Sep. 4	...	46 45.84	1	46 27.7	M
25	...	26 11.04	...	23 0.6	M	25	...	46 46.54	3	46 38.2	M
14 46 Orionis ϵ						18 3 Canis Minoris β					
Jan. 24	...	5 30 25.66	...	91 16 31.7	R	Jan. 30	...	7 20 53.06	...	81 28 55.5	R
Feb. 3	...	30 25.66	...	16 33.9	R	19 17 Cancri β					
6	...	30 25.67	...	16 34.4	M	Apl. 2	...	8 10 19.80	...	80 27 47.0	R
13	...	30 25.65	...	16 32.8	M	5	...	10 19.99	...	27 47.4	R
15	...	30 25.81	...	16 31.9	M	7	...	10 19.94	...	27 46.9	R
17	...	30 25.68	...	16 33.1	M	20 43 Cancri γ					
20	...	30 25.73	...	16 31.2	M	Apl. 2	...	8 36 41.23	...	68 7 19.2	R
22	...	30 25.69	...	16 31.0	M	5	...	36 41.21	...	7 20.4	R
25	...	30 25.63	...	16 31.2	M	7	...	36 41.26	...	7 20.2	R
15 53 Orionis κ						9	...	36 41.22	...	7 21.6	R
Jan. 30	...	5 42 30.98	...	99 42 40.4	R	12	...	36 41.27	...	7 19.8	R
Feb. 1	...	42 21.00	...	42 38.7	R	21 65 Cancri α					
3	...	42 20.93	...	42 41.0	R	Apl. 2	...	8 52 15.11	...	77 42 3.6	R
17	...	42 20.90	...	42 39.7	M	7	...	52 15.05	...	42 4.9	R
20	...	42 20.87	...	42 38.4	M	9	...	52 15.08	...	42 4.9	R
22	...	42 20.85	...	42 36.7	M	12	...	52 15.05	...	42 4.7	R
25	...	42 20.92	...	42 38.2	M	22 76 Cancri κ					
16 7 Geminorum η						Apl. 5	...	9 1 34.29	...	78 52 24.4	R
Feb. 1	...	6 7 59.66	...	67 27 38.3	R	9	...	1 34.34	...	52 23.8	R
17 51 Cephei (Hev.).						12	...	1 34.31	...	52 24.8	R
Jan. 15	...	6 46 45.06	3	2 46 38.8	R	14	...	1 34.32	...	52 26.0	R
24	...	46 45.94	7	46 38.4	R	15	...	1 34.35	...	52 22.1	R
26	...	46 47.15	7	46 39.9	M						
27	...	46 46.86	7	46 38.6	M						
29	...	46 45.07	7	46 38.9	R						
30	...	46 46.83	7	46 37.1	R						

Separate Results of Madras Meridian Circle Observations in 1886.

Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ' "	Observer.
23 <i>Lalande 18162.</i>						May 1	...	10 54 40.88	...	85 46 13.5	R
Apl. 5	8.5	9 6 46.14	...	78 51 48.0	R	4	...	54 40.49	...	46 13.1	R
7	8.5	6 46.19	...	51 46.6	R	6	...	54 40.34	...	46 13.3	R
9	8.5	6 46.25	...	51 47.6	R	8	...	54 40.32	...	46 13.2	R
12	8.5	6 46.32	...	51 48.2	R	10	...	54 40.32	...	46 13.5	R
14	8.5	6 46.40	...	51 47.1	R	29 <i>84 Leonis τ</i>					
24 <i>14 Leonis ο</i>						Apl. 27	...	11 22 4.48	...	86 30 56.4	R
Apl. 14	...	9 35 3.89	...	79 35 20.5	R	May 1	...	22 4.47	...	30 56.8	R
16	...	35 3.94	...	35 19.8	R	30 <i>Anon.</i>					
19	...	35 3.91	...	35 20.1	R	Apl. 7	9.5	11 38 38.70	...	80 56 10.5	R
21	...	35 3.94	...	35 22.2	R	12	9.7	38 38.60	...	56 11.5	R
24	...	35 3.96	...	35 22.0	R	16	9.5	38 38.55	...	56 11.0	R
25 <i>24 Leonis μ</i>						21	9.5	38 38.66	...	56 10.0	R
Apl. 14	...	9 46 16.69	...	63 27 22.6	R	27	9.5	38 38.83	...	56 8.8	R
16	...	46 16.61	...	27 22.2	R	31 <i>Anon.</i>					
19	...	46 16.67	...	27 22.4	R	Apl. 9	9.3	11 41 17.35	...	81 21 9.3	R
21	...	46 16.66	...	27 23.7	R	14	9.3	41 17.47	...	21 9.9	R
24	...	46 16.72	...	27 23.2	R	19	9.3	41 17.44	...	21 7.9	R
26 <i>R. P. L. 72.</i>						24	9.3	41 17.54	...	21 9.7	R
Apl. 2	...	10 12 55.34	3	5 10 9.2	R	29	9.3	41 17.29	...	21 9.3	R
9	...	12 54.68	3	10 9.4	R	32 <i>Anon.</i>					
27 <i>42 Hydræ μ</i>						Apl. 5	9.0	11 41 42.62	...	81 0 52.6	R
Apl. 21	...	10 20 34.64	...	106 15 16.5	R	May 1	9.0	41 42.60	4	0 51.2	R
24	...	20 34.55	...	15 16.9	R	4	9.0	41 42.73	...	0 50.1	R
27	...	20 34.53	...	15 16.6	R	6	9.0	41 42.78	...	0 51.4	R
29	...	20 34.53	...	15 17.0	R	10	9.0	41 42.72	...	0 50.2	R
May 1	...	20 34.57	...	15 15.5	R	33 <i>8 Virginis π</i>					
4	...	20 34.50	...	15 15.1	R	Apl. 29	...	11 55 1.89	...	82 44 59.9	R
6	...	20 34.58	...	15 16.2	R	May 4	...	55 1.85	...	45 0.2	R
8	...	20 34.60	...	15 15.5	R	6	...	55 1.93	...	44 59.9	R
10	...	20 34.69	...	15 16.5	R	8	...	55 1.93	...	44 59.3	R
28 <i>58 Leonis δ.</i>						10	...	55 1.84	...	44 58.5	R
Apl. 19	...	10 54 40.37	...	85 46 12.7	R						
27	...	54 40.41	...	46 13.8	R						
29	...	54 40.40	...	46 14.0	R						

Separate Results of Madras Meridian Circle Observations in 1886.

Number and Date.	Magnitude.	Mean Right Ascension 1886.			No. of Wires.	Mean Polar Distance 1886.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1886.			No. of Wires.	Mean Polar Distance 1886.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
34 <i>Lalande 22762.</i>										42 <i>22 Bootis f.</i>									
Apl. 5	8·7	12	2	12·97	...	83	19	43·6	R	June 22	...	14	21	9·23	...	70	15	38·4	M
7	8·7		2	13·04	...		19	44·1	R	25	...		21	9·21	...		15	38·1	M
9	8·7		2	12·83	...		19	44·2	R	43 <i>25 Bootis ρ</i>									
12	8·7		2	12·90	...		19	43·8	R	June 22	...	14	26	54·88	...	59	7	40·0	M
14	8·7		2	12·96	...		19	43·6	R	44 <i>R. P. L. 110.—s.p.</i>									
35 <i>R. P. L. 92.</i>										Jan. 1	...	14	52	17·39	3	3	34	46·7	M
Apl. 19	...	12	13	29·79	3	2	55	49·5	R	Dec. 11	...		52	16·87	3		34	45·6	R
29	...		13	29·71	3		55	52·4	R	24	...		52	18·94	3		34	45·5	R
May 10	...		13	28·35	3		55	50·5	R	28	...		52	17·84	3		34	48·8	M
June 11	...		13	30·70	3		55	49·3	M	45 <i>72 Ophiuchi.</i>									
36 <i>7 Corvi δ²</i>										Aug. 4	...	18	1	56·68	...	80	27	7·4	R
June 7	...	12	23	58·00	...	105	52	50·4	M	46 <i>23 Ursæ Minoris δ</i>									
11	...		23	57·95	...		52	48·8	M	Aug. 4	...	18	9	5·05	3	3	28	24·1	R
37 <i>29 Virginis γ¹</i>										47 <i>58 Serpentis η</i>									
June 7	...	12	35	53·00	...	90	49	23·7	M	Sep. 4	...	18	15	24·68	...	92	55	39·3	M
11	...		35	53·05	...		49	23·5	M	48 <i>22 Sagittarii λ</i>									
38 <i>43 Virginis δ</i>										Aug. 4	...	18	20	56·07	...	115	28	50·5	R
June 7	...	12	49	51·68	...	85	58	58·9	M	Sep. 4	...		20	56·06	...		28	58·3	M
11	...		49	51·68	...		58	57·3	M	49 <i>13 Aquilæ ε</i>									
18	...		49	51·58	...		58	57·0	M	Aug. 4	...	18	54	26·84	...	75	5	11·0	R
39 <i>47 Virginis ε, Vindemiatrix.</i>										Sep. 25	...		54	26·92	...		5	12·4	M
June 18	...	12	56	30·17	...	78	25	40·5	M	40 <i>4 Bootis τ</i>									
40 <i>4 Bootis τ</i>										June 18	...	13	41	50·73	...	71	58	30·9	M
June 18	...	13	41	50·73	...	71	58	30·9	M	22	...		41	50·87	...		58	29·9	M
22	...		41	50·87	...		58	29·9	M	25	...		41	50·80	...		58	27·7	M
25	...		41	50·80	...		58	27·7	M	41 <i>93 Virginis τ</i>									
41 <i>93 Virginis τ</i>										June 25	...	13	55	50·69	...	87	54	10·7	M

Separate Results of Madras Meridian Circle Observations in 1886.

Number and Date.	Magnitude.	Mean Right Ascension 1886.			No. of Wires.	Mean Polar Distance 1886.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1886.			No. of Wires.	Mean Polar Distance 1886.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
50 52 <i>Sagittarii h^a.</i>										53 65 <i>Aquilæ θ</i>									
Sep. 1	...	19	29	46.23	...	105	8	2.3	M	Sep. 1	...	20	5	25.84	...	91	9	81.1	M
11	...	29	46.12	...			8	1.9	M	4	...	5	25.29	...		9	30.8	M	
51 λ <i>Ursæ Minoris.</i>										11 ... 5 25.38 ... 9 30.1 M									
Sep. 4	...	19	37	50.88	3	1	2	32.0	M	15	...	5	25.40	...		9	31.4	M	
25	...	37	51.15	3			2	33.3	M	18	...	5	25.35	...		9	31.8	M	
λ <i>Ursæ Minoris</i> — <i>s.p.</i> 32.7										22 ... 5 25.38 ... 9 31.6 M									
Feb. 1 ... 19 37 49.92 7 1 2 31.4 B										25 ... 5 25.42 ... 9 33.1 M									
6	...	37	53.56	7			2	25.7	M	54 2 <i>Delphini ε</i>									
13	...	37	50.53	7			2	30.2	M	Sep. 15	...	20	27	45.97	...	79	5	0.6	M
15	...	37	50.96	7			2	31.8	M	18	...	27	45.82	...		5	0.2	M	
17	...	37	50.75	7			2	31.7	M	22	...	27	46.04	...		5	0.9	M	
22	...	37	49.77	7			2	31.5	M	25	...	27	45.79	...		4	59.8	M	
52 53 <i>Aquilæ α, Altair.</i> 30.4										55 <i>R. P. L. 155.—s.p.</i>									
Sep. 1	...	19	45	13.14	...	81	25	53.2	M	Apl. 2	...	23	24	19.72	3	4	12	40.6	R
11	...	45	13.23	...			25	54.5	M	9	...	24	19.10	3		12	39.3	R	
15	...	45	13.18	...			25	55.8	M	19	...	24	18.47	3		12	39.4	R	
18	...	45	13.86	...			25	55.2	M	29	...	24	19.43	3		12	37.8	R	
22	...	45	13.12	...			25	54.0	M	May 10	...	24	17.86	3		12	34.9	R	

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1886

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1886, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>o</i>	<i>'</i>	<i>"</i>		
1	43 Andromedæ β ...	2.2	...	1	3	20.99	54	59	3.7	1	0.94
2	1 Ursæ Minoris α , (<i>Polaris</i>)	2.2	...	1	16	57.36	1	17	57.9	3	0.79
3	110 Piscium σ ...	4.4	...	1	39	22.42	81	24	58.2	4	0.73
4	43 Arietis σ ...	5.5	...	2	45	11.33	75	23	16.4	4	0.74
5	1 Tauri σ , Var. 5	Var.	...	3	18	40.78	81	22	23.1	6	0.85
6	18 Eridani ϵ ...	3.7	...	3	27	33.54	99	50	40.7	5	0.04
7	37 Tauri A ¹ ...	4.4	...	3	57	57.32	68	13	51.3	3	0.05
8	54 Tauri γ ...	3.9	...	4	13	18.33	74	33	55.9	4	0.07
9	57 Eridani μ ...	4.3	...	4	39	43.15	93	27	52.5	6	0.09
10	R. P. L. 37 ...	6.8	...	4	51	23.53	4	11	31.9	5	0.25
11	19 Orionis β (<i>Rigel</i>)	0.3	...	5	9	3.53	98	20	3.0	3	0.08
12	R. P. L. 40 ...	6.2	...	5	25	32.46	4	51	50.6	3	0.08
13	34 Orionis δ , Var. 1	Var.	...	5	26	10.98	90	23	1.7	8	0.12
14	46 Orionis ϵ ...	1.3	...	5	30	25.69	91	16	32.4	9	0.12
15	53 Orionis κ ...	2.2	...	5	42	20.92	99	42	39.0	7	0.12
16	7 Geminorum η ...	3.5	...	6	7	59.66	67	27	38.3	1	0.09
17	51 Cephei (<i>Hev.</i>)	5.3	...	6	46	46.24	2	46	37.8	14	0.21
18	3 Canis Minoris β ...	3.1	...	7	20	58.06	81	28	55.5	1	0.08
19	17 Cancri β ...	3.8	...	8	10	19.94	80	27	47.1	3	0.26
20	43 Cancri γ ...	4.8	...	8	36	41.24	68	7	20.2	5	0.26
21	65 Cancri α ...	4.3	...	8	52	15.07	77	42	4.5	4	0.26
22	76 Cancri κ ...	5.0	...	9	1	34.32	78	52	24.2	5	0.27
23	Lalande 18162 ...	8.5	5	9	6	46.26	78	51	47.5	5	0.27
24	14 Leonis σ ...	3.8	...	9	35	3.93	79	35	20.9	5	0.30
25	24 Leonis μ ...	4.1	...	9	46	16.67	63	27	22.3	5	0.30
26	R. P. L. 72 ...	5.9	...	10	12	55.01	5	10	9.3	2	0.26
27	42 Hydræ μ ...	4.1	...	10	20	34.53	106	15	16.2	9	0.33
28	58 Leonis d ...	5.0	...	10	54	40.33	35	46	13.3	8	0.33
29	84 Leonis τ ...	5.1	...	11	22	4.43	86	30	56.6	2	0.32
30	... ..	9.5	5	11	38	33.67	80	56	10.4	5	0.29
31	... ..	9.3	5	11	41	17.42	81	21	9.2	5	0.30
32	... ..	9.0	5	11	41	42.69	81	0	51.1	5	0.32
33	8 Virginis τ ...	4.4	...	11	55	1.89	82	44	59.6	5	0.34
34	Lalande 22762 ...	8.7	5	12	2	12.94	83	19	43.9	5	0.27
35	R. P. L. 92 ...	6.7	...	12	13	29.64	2	55	50.4	4	0.35

12.—Groombridge 944.

23.—Comparison star for Ariadne in 1886.

26.—Groombridge 1620.

30—31—32—34.—Comparison stars for Vera in 1886.

35.—Groombridge 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
1	43 Andromedæ β ...	+ 3.3280	+ 0.0286	+ 0.014	- 19.293	+ 0.139	+ 0.08	140
2	1 Ursæ Minoris α ...	+ 22.4929	+ 16.9580	+ 0.108	- 18.933	+ 1.089	+ 0.00	102
3	110 Piscium σ ...	+ 3.1572	+ 0.0111	+ 0.003	- 18.198	+ 0.200	- 0.06	232
4	43 Arietis σ ...	+ 3.3025	+ 0.0150	- 0.000	- 15.066	+ 0.323	+ 0.04	400
5	1 Tauri σ ...	+ 3.2270	+ 0.0115	- 0.005	- 12.978	+ 0.364	+ 0.07	477
6	18 Eridani ϵ ...	+ 2.8899	+ 0.0055	- 0.068	- 12.376	+ 0.336	- 0.01	498
7	37 Tauri A ¹ ...	+ 3.5324	+ 0.0153	+ 0.005	- 10.182	+ 0.447	+ 0.06	554
8	54 Tauri γ ...	+ 3.4003	+ 0.0115	+ 0.007	- 9.002	+ 0.446	+ 0.03	583
9	57 Eridani μ ...	+ 2.9964	+ 0.0055	- 0.000	- 6.875	+ 0.413	+ 0.00	657
10	R. P. L. 37 ...	+ 20.5020	+ 1.4802	...	- 5.907	+ 2.861	...	...
11	19 Orionis β ...	+ 2.8813	+ 0.0040	- 0.001	- 4.421	+ 0.412	- 0.01	736
12	R. P. L. 40 ...	+ 18.6040	+ 0.5814	...	- 3.004	+ 2.684	...	...
13	34 Orionis δ ...	+ 3.0635	+ 0.0038	- 0.001	- 2.948	+ 0.443	+ 0.01	787
14	46 Orionis ϵ ...	+ 3.0429	+ 0.0035	- 0.002	- 2.580	+ 0.441	- 0.01	809
15	53 Orionis κ ...	+ 2.8442	+ 0.0027	- 0.002	- 1.543	+ 0.414	- 0.00	844
16	7 Geminorum η ...	+ 3.6269	+ 0.0007	- 0.005	+ 0.700	+ 0.529	+ 0.00	909
17	51 Cephei (Hew.) ...	+ 30.0605	- 2.3299	- 0.040	+ 4.064	+ 4.291	+ 0.05	1880
18	3 Canis Minoris β ...	+ 3.2604	- 0.0041	- 0.004	+ 6.938	+ 0.444	+ 0.03	1079
19	17 Cancri β ...	+ 3.2616	- 0.0072	- 0.004	+ 10.799	+ 0.307	+ 0.04	1180
20	43 Cancri γ ...	+ 3.4885	- 0.0143	- 0.009	+ 12.667	+ 0.390	+ 0.03	1230
21	65 Cancri α ...	+ 3.2854	- 0.0098	+ 0.001	+ 13.692	+ 0.345	+ 0.02	1269
22	76 Cancri κ ...	+ 3.2571	- 0.0093	- 0.003	+ 14.277	+ 0.329	- 0.01	1287
23	Lalande 18162 ...	+ 3.2529	- 0.0094	...	+ 14.593	+ 0.320	...	...
24	14 Leonis σ ...	+ 3.2176	- 0.0093	- 0.010	+ 16.176	+ 0.272	+ 0.02	1360
25	24 Leonis μ ...	+ 3.4404	- 0.0198	- 0.019	+ 16.736	+ 0.271	+ 0.05	1384
26	R. P. L. 72 ...	+ 9.7288	- 1.5787	- 0.096	+ 17.904	+ 0.631	- 0.04	1399
27	42 Hydrae μ ...	+ 2.9085	+ 0.0040	- 0.010	+ 18.197	+ 0.171	+ 0.06	1451
28	58 Leonis d ...	+ 3.1002	- 0.0039	- 0.002	+ 19.244	+ 0.120	+ 0.01	1526
29	84 Leonis τ ...	+ 3.0859	- 0.0020	- 0.001	+ 19.779	+ 0.066	+ 0.01	1570
30	... ..	+ 3.0923	- 0.0042	...	+ 19.966	+ 0.033	...	.
31	... ..	+ 3.0890	- 0.0038	...	+ 19.987	+ 0.028	...	...
32	... ..	+ 3.0893	- 0.0039	...	+ 19.990	+ 0.027	...	...
33	8 Virginis π ...	+ 3.0761	- 0.0022	- 0.003	+ 20.048	+ 0.002	+ 0.02	1618
34	Lalande 22762 ...	+ 3.0709	- 0.0015	...	+ 20.053	- 0.013	...	...
35	R. P. L. 92 ...	+ 1.5357	+ 0.0036	+ 0.285	+ 20.019	- 0.022	+ 0.02	1656

Mean Positions of Stars for 1886, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	7 Corvi δ^a	3.1	...	12	23	57.98	105	52	49.6	2	0.44
37	29 Virginis γ^1	3.5	...	12	35	53.03	90	49	23.6	2	0.44
38	43 Virginis δ	3.7	...	12	49	51.65	85	58	57.7	3	0.44
39	47 Virginis ϵ	3.0	...	12	56	30.17	78	25	40.5	1	0.46
40	4 Bootis τ	4.5	...	13	41	50.80	71	58	29.5	3	0.47
41	93 Virginis τ	4.3	...	13	55	50.69	87	54	10.7	1	0.48
42	22 Bootis f	5.4	...	14	21	9.22	70	15	38.3	2	0.47
43	25 Bootis ρ	3.6	...	14	26	54.88	59	7	40.0	1	0.47
44	R. P. L. 110	7.1	...	14	52	17.76	3	34	46.7	4	0.73
45	72 Ophiuchi	3.8	...	18	1	56.68	80	27	7.4	1	0.59
46	23 Ursæ Minoris δ	4.3	...	18	9	5.05	3	23	21.6	7	0.14
47	58 Serpentis η	3.4	...	18	15	24.68	92	55	39.3	1	0.67
48	22 Sagittarii λ	3.1	...	18	20	56.07	115	28	58.9	2	0.63
49	13 Aquilæ ϵ	4.1	...	18	54	26.88	75	5	11.7	2	0.66
50	52 Sagittarii h^a	4.6	...	19	29	46.18	105	8	2.1	2	0.68
51	λ Ursæ Minoris	6.5	...	19	37	50.94	1	2	31.0	8	0.26
52	53 Aquilæ α (<i>Altair</i>)	1.0	..	19	45	13.21	81	25	54.5	5	0.70
53	65 Aquilæ θ	3.4	...	20	5	25.37	91	9	31.4	7	0.70
54	2 Delphini ϵ	4.1	...	20	27	45.91	79	5	0.4	4	0.72
55	R. P. L. 155	7.0	...	23	24	18.93	4	12	38.4	5	0.30

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		<i>s</i>	<i>s</i>	<i>s</i>	<i>"</i>	<i>"</i>	<i>"</i>	
36	7 Corvi δ^2 ...	+ 3.1120	+ 0.0118	- 0.014	+ 19.944	- 0.055	+ 0.15	1875
37	29 Virginis γ^1 ...	+ 3.0754	+ 0.0043	- 0.039	+ 19.808	- 0.078	- 0.02	1698
38	43 Virginis δ ...	+ 3.0522	+ 0.0025	- 0.034	+ 19.582	- 0.103	+ 0.05	1723
39	47 Virginis ϵ ...	+ 3.0056	- 0.0007	- 0.019	+ 19.448	- 0.114	- 0.08	1735
40	4 Bootis τ ...	+ 2.8854	- 0.0007	- 0.035	+ 18.16	- 0.188	- 0.04	1810
41	93 Virginis τ ...	+ 3.0487	+ 0.0064	- 0.001	+ 17.546	- 0.222	+ 0.03	1829
42	22 Bootis f ...	+ 2.7953	+ 0.0009	- 0.006	+ 16.369	- 0.242	- 0.03	1864
43	25 Bootis p ...	+ 2.5044	- 0.0015	- 0.009	+ 16.072	- 0.233	- 0.13	1869
44	R. P. L. 110 ...	- 11.5221	+ 2.9796	...	+ 14.649	+ 1.142	...	...
45	72 Ophiuchi ...	+ 2.8475	+ 0.0019	- 0.006	- 0.169	- 0.415	- 0.09	2275
46	23 Ursæ Minoris δ ...	- 19.4823	- 0.2624	+ 0.026	- 0.795	+ 2.839	- 0.04	2395
47	58 Serpentis η ...	+ 3.1405	+ 0.0010	- 0.040	- 1.348	- 0.456	+ 0.68	2298
48	22 Sagittarii λ ...	+ 3.7070	- 0.0013	- 0.005	- 1.829	- 0.537	+ 0.20	2310
49	13 Aquilæ ϵ ...	+ 2.7263	+ 0.0004	- 0.005	- 4.719	- 0.385	+ 0.08	2390
50	52 Sagittarii h^2 ...	+ 3.6521	- 0.0102	+ 0.002	- 7.656	- 0.490	+ 0.01	2478
51	λ Ursæ Minoris ...	- 63.8390	- 28.9195	- 0.050	- 8.304	+ 8.478	+ 0.01	2795
52	53 Aquilæ α ...	+ 2.8919	- 0.0014	+ 0.035	- 8.886	- 0.374	- 0.38	2524
53	65 Aquilæ θ ...	+ 3.0955	- 0.0042	- 0.000	- 10.434	- 0.382	- 0.01	2576
54	2 Delphini ϵ ...	+ 2.8664	- 0.0013	- 0.001	- 12.052	- 0.330	+ 0.02	2642
55	R. P. L. 155 ...	+ 0.2564	- 0.3328	...	- 19.810	+ 0.003	...	...

SEPARATE RESULTS
OF
OBSERVATIONS
OF THE FIXED STARS
MADE WITH THE
MADRAS MERIDIAN CIRCLE
IN THE YEAR
1887

Separate Results of Madras Meridian Circle Observations in 1887.

Number and Date.	Magnitude.	Mean Right Ascension 1887. h. m. s.	No. of Wires.	Mean Polar Distance 1887. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887. h. m. s.	No. of Wires.	Mean Polar Distance 1887. ° ' "	Observer.
1 21 <i>Andromedæ α</i> , <i>Alpherat</i> .						9 57 <i>Eridani μ</i>					
Nov. 8	...	0 2 32.81	...	61 31 59.3	R	Jan. 11	...	4 39 51.12	...	98 27 46.3	M
17	...	2 32.89	...	32 1.5	R	25	...	39 51.28	...	27 44.9	R
21	...	2 32.82	...	32 1.2	R	28	...	39 51.07	...	27 43.7	M
26	...	2 32.74	...	32 1.8	R	10 <i>R. P. L. 37.</i>					
2 8 <i>Ceti ε</i>						Jan. 7	...	4 51 49.55	3	4 11 31.8	M
Nov. 7	...	0 18 40.12	...	99 27 0.5	R	28	...	51 50.81	3	11 27.5	M
17	...	18 40.05	...	27 0.5	R	11 19 <i>Orionis β</i> , <i>Rigel</i> .					
26	...	18 40.16	...	26 59.9	R	Feb. 18	...	5 9 6.44	...	98 19 57.3	R
3 63 <i>Piscium δ</i>						12 <i>R. P. L. 40.</i>					
Nov. 21	...	0 42 49.09	...	33 1 47.1	R	Feb. 18	...	5 25 50.77	3	4 51 46.7	R
26	...	42 49.14	...	1 47.1	R	13 34 <i>Orionis δ</i> , <i>Var. 1.</i>					
4 43 <i>Arietis σ</i>						Feb. 22	...	5 26 14.08	...	90 22 59.1	M
Jan. 7	...	2 45 15.29	...	75 23 1.8	M	14 11 <i>Leporis α</i>					
11	...	45 15.24	...	23 1.3	M	Jan. 25	...	5 27 44.73	...	107 54 12.7	R
5 1 <i>Tauri ο</i> , <i>Var. 5.</i>						28	...	27 44.85	...	54 12.7	M
Jan. 7	...	3 18 43.87	...	81 22 11.3	M	15 46 <i>Orionis ε</i>					
14	...	18 43.98	...	22 8.7	R	Feb. 22	...	5 30 28.74	...	91 16 27.8	M
18	...	18 43.97	...	22 9.6	M	16 53 <i>Orionis κ</i>					
21	...	18 43.99	...	22 9.6	M	Feb. 18	...	5 42 28.80	...	99 42 36.7	R
6 18 <i>Eridani ε</i>						22	...	42 28.71	...	42 35.8	M
Jan. 7	...	3 27 36.38	...	99 50 27.8	M	25	...	42 28.78	...	42 35.2	R
18	...	27 36.41	...	50 29.3	M	17 31 <i>Geminorum ξ</i>					
21	...	27 36.32	...	50 29.6	M	Feb. 18	...	6 38 56.85	...	76 59 0.7	R
7 73 <i>Tauri A</i> ¹ .						25	...	38 56.96	...	58 53.4	R
Jan. 14	...	3 58 0.86	...	68 13 39.8	R	Mar. 4	...	38 56.80	...	59 1.7	M
8 54 <i>Tauri γ</i>						18 9 <i>Canis Majoris α</i> , <i>Sirius</i> .					
Jan. 11	...	4 13 21.72	...	74 38 46.5	M	Mar. 1	...	6 40 10.02	...	106 33 41.5	R
14	...	13 21.75	...	38 45.0	R						
18	...	13 21.75	...	38 47.0	M						
21	...	18 21.82	...	38 45.9	M						
25	...	13 21.62	...	38 44.9	R						
28	...	13 21.72	...	38 46.2	M						

Separate Results of Madras Meridian Circle Observations in 1887.

Number and Date.	Magnitude.	Mean Right Ascension 1887. h. m. s.	No. of Wires.	Mean Polar Distance 1887. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887. h. m. s.	No. of Wires.	Mean Polar Distance 1887. ° ' "	Observer.
19 51 <i>Cephei</i> (<i>Hev.</i>).						28 24 <i>Leonis</i> μ					
Feb. 25	...	6 47 16.71	3	2 46 42.6	R	Apl. 26	...	9 46 20.10	...	63 27 37.7	R
Mar. 4	...	47 16.02	3	46 42.7	M	29	...	46 20.16	...	27 39.9	M
Apl. 1	...	47 16.81	3	46 47.4	M						
20 14 <i>Canis Majoris</i> θ						29 <i>R. P. L.</i> 72.					
Mar. 1	...	6 48 56.42	...	101 53 51.1	R	Apl. 26	...	10 18 6.17	3	5 10 27.5	R
21 <i>W. B. E.</i> VII. 467.						<i>R. P. L.</i> 72— <i>s.p.</i>					
Feb. 18	9.5	7 17 30.07	...	81 12 16.5	R	Oct. 10	...	10 18 5.59	7	5 10 32.1	R
22	9.5	17 30.20	...	12 18.4	M						
25	9.5	17 30.15	...	12 16.5	R	30 42 <i>Hydræ</i> μ					
Mar. 1	9.5	17 30.15	...	12 17.4	R	Apl. 29	...	10 20 37.44	...	106 15 36.3	M
4	9.5	17 30.13	...	12 17.1	M	May 8	...	20 37.49	...	15 85.0	R
22 3 <i>Canis Minoris</i> β						6	...	20 37.51	...	15 32.6	R
Feb. 25	...	7 21 1.27	...	81 28 59.1	R	31 58 <i>Leonis</i> d .					
Mar. 1	...	21 1.28	...	28 59.8	R	Apl. 26	...	10 54 43.47	...	85 46 32.5	R
4	...	21 1.46	...	29 1.4	M	29	...	54 43.49	...	46 33.6	M
Apl. 1	...	21 1.47	...	29 1.7	M	May 3	...	54 43.48	...	46 32.8	R
23 ξ <i>Argus</i> .						6	...	54 43.44	...	46 31.6	R
Mar. 4	...	7 44 32.47	...	114 34 35.8	M	10	...	54 43.51	...	46 32.8	R
24 17 <i>Canceri</i> β						16	...	54 43.49	...	46 32.5	R
Apl. 8	...	8 10 23.15	...	81 27 58.3	M	32 84 <i>Leonis</i> τ					
25 43 <i>Canceri</i> γ						May 3	...	11 22 7.55	...	86 31 17.4	R
Apl. 1	...	8 36 44.81	...	68 7 32.9	M	6	...	22 7.56	...	31 15.5	R
8	...	36 44.75	...	7 33.1	M	33 8 <i>Virginis</i> π					
26 65 <i>Canceri</i> α						May 16	...	11 55 4.98	...	82 45 19.0	R
Apl. 8	...	8 52 18.38	...	77 42 18.2	M	27	...	55 4.93	...	45 18.1	R
27 14 <i>Leonis</i> σ						31	...	55 4.93	...	45 19.0	R
Apl. 26	...	9 35 7.10	...	79 36 40.4	R	June 3	...	55 5.01	...	45 19.2	M
						34 <i>R. P. L.</i> 92.					
						May 16	...	12 13 30.97	3	2 56 9.8	R
						31	...	13 31.35	3	56 12.2	R

Separate Results of Madras Meridian Circle Observations in 1887.

Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
<i>R. P. L. 92—s.p.</i>										40 <i>93 Virginis τ</i>									
Nov. 3	...	12	18	31.93	3	2	56	13.0	R	June 28	...	13	55	53.69	...	87	54	28.1	M
21	...	13	31.39	3		56	12.9	R		July 1	...	55	53.82	...		54	29.9	M	
35 <i>7 Corvi δ²</i>										41 <i>22 Bootis f.</i>									
May 10	...	12	24	1.11	...	105	53	7.5	R	June 28	...	14	21	12.05	...	70	15	54.2	M
16	...	24	1.12	...		53	11.9	R		July 1	...	21	12.01	...		15	54.8	M	
20	...	24	1.20	...		53	7.4	R											
24	...	24	1.12	...		53	8.9	R											
June 3	...	24	1.16	...		53	8.6	M											
7	...	24	1.20	...		53	9.0	M											
36 <i>29 Virginis γ¹</i>										42 <i>R. P. L. 110.</i>									
May 24	...	12	35	55.99	...	90	49	42.2	R	June 14	...	14	52	5.29	3	3	34	59.9	M
27	...	35	55.99	...		49	41.8	R		28	...	52	3.65	3		34	59.3	M	
June 3	...	35	55.99	...		49	42.2	M											
7	...	35	56.04	...		49	43.4	M											
10	...	35	56.08	...		49	41.7	M											
14	...	35	56.06	...		49	43.8	M											
37 <i>43 Virginis δ</i>										<i>R. P. L. 110.—s.p.</i>									
May 10	...	12	49	54.71	...	85	59	17.1	R	Jan. 7	...	14	52	6.32	3	3	34	59.3	M
20	...	49	54.73	...		59	15.3	R											
24	...	49	54.68	...		59	16.6	R											
31	...	49	54.74	...		59	15.4	R											
June 7	...	49	54.62	...		59	15.9	M											
10	...	49	54.71	...		59	14.6	M											
14	...	49	54.68	...		59	17.3	M											
38 <i>47 Virginis ε</i>										43 <i>37 Serpentis ε</i>									
May 20	...	12	56	33.08	...	78	25	57.3	R	July 22	...	15	45	10.99	...	85	10	52.2	M
27	...	56	33.12	...		25	58.0	R											
31	...	56	33.10	...		25	58.5	R											
June 10	...	56	33.01	...		25	57.2	M											
14	...	56	33.04	...		25	59.7	M											
39 <i>4 Bootis τ</i>										44 <i>20 Herculis γ</i>									
June 28	...	13	41	53.65	...	71	58	45.2	M	July 22	...	16	16	55.96	...	70	34	52.8	M
July 1	...	41	53.56	...		58	48.2	M											
40 <i>13 Ophiuchi ζ</i>										45 <i>35 Ophiuchi η</i>									
										July 12	...	17	3	53.91	...	105	35	1.7	M
										Aug. 27	...	3	53.90	...		35	1.8	M	
41 <i>42 Ophiuchi θ</i>										46 <i>49 Ophiuchi σ</i>									
July 12	...	17	15	4.12	...	114	53	7.7	M	July 12	...	17	20	54.40	...	85	45	36.9	M
Aug. 27	...	15	4.10	..		53	9.9	M		Aug. 27	...	20	54.41	...		45	37.6	M	

Separate Results of Madras Meridian Circle Observations in 1887.

Number and Date.	Magnitude.	Mean Right Ascension 1887. h. m. s.	No. of Wires.	Mean Polar Distance 1887. ° ' "	Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887. h. m. s.	No. of Wires.	Mean Polar Distance 1887. ° ' "	Observer.
49	23 Ursæ Minoris δ					54	2 Aquarii ε				
July 29	...	18 8 46.60	3	3 23 18.9	M	Oct. 10	...	20 41 33.46	...	99 54 29.9	R
23 Ursæ Minoris δ—s.p.						55	61 Cygni.—1st.				
Jan. 28	...	18 8 46.38	3	3 23 17.9	M	Oct. 1	...	21 1 49.83	...	51 43 16.3	R
Feb. 18	...	8 44.80	2	23 19.3	R	56					
25	...	8 46.07	3	23 20.8	R	48 Aquarii γ					
Mar. 4	...	8 45.39	3	23 19.0	M	Nov. 3	...	22 15 49.13	...	91 57 21.6	R
50	λ Ursæ Minoris—s.p.					7	...	15 49.16	...	57 21.6	R
Apl. 1	...	19 36 47.33	7	1 2 23.7	M	57					
51	53 Aquilæ α, Altair.					73 Aquarii λ					
Oct. 1	...	19 45 16.19	...	31 25 41.9	R	Nov. 3	...	22 46 43.03	...	98 10 48.3	R
5	...	45 16.19	...	25 42.5	R	7	...	46 42.99	...	10 48.5	R
52						17	...	46 43.00	...	10 48.2	R
65 Aquilæ θ						21	...	46 43.08	...	10 49.7	R
Oct. 1	...	20 5 28.37	...	91 9 18.7	R	58					
5	...	5 28.45	...	9 18.5	R	R. P. L. 155.					
10	...	5 28.42	...	9 19.1	R	Nov. 3	...	23 24 20.34	4	4 12 11.0	R
53						21	...	24 19.80	3	12 15.4	R
2 Delphini ε						R. P. L. 155—s.p.					
Oct. 5	...	20 27 48.80	...	79 4 45.6	R	Apl. 26	...	23 24 19.71	3	4 12 19.4	R
10	...	27 48.87	...	4 46.8	R	May 16	...	24 19.22	3	12 18.9	R

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1887

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1887, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
1	21 Androm. α (<i>Alpherat</i>) ..	2.1	...	0	2	32.82	61	32	1.0	4	0.88
2	8 Ceti ϵ	3.6	...	0	13	40.11	99	27	0.3	3	0.88
3	63 Piscium δ	4.6	...	0	42	49.12	83	1	47.1	2	0.89
4	43 Arietis σ	5.5	...	2	45	15.27	75	23	1.6	2	0.02
5	1 Tauri ϵ , Var. 5	Var.	...	3	18	43.95	81	22	9.8	4	0.04
6	18 Eridani ϵ	3.7	...	3	27	36.37	99	50	28.9	3	0.04
7	37 Tauri A ¹	4.4	...	3	58	0.86	68	13	39.8	1	0.04
8	54 Tauri γ	3.9	...	4	13	21.73	74	38	45.9	6	0.05
9	57 Eridani μ	4.3	...	4	39	51.16	93	27	45.0	3	0.06
10	R. P. L. 37	6.8	...	4	51	50.18	4	11	29.7	2	0.04
11	19 Orionis β (<i>Rigel</i>) ...	0.3	...	5	9	6.44	98	19	57.3	1	0.13
12	R. P. L. 40	6.2	...	5	25	50.77	4	51	46.7	1	0.13
13	34 Orionis δ , Var. 1 ...	Var.	...	5	26	14.08	90	22	59.1	1	0.14
14	11 Leporis α	2.7	...	5	27	44.79	107	54	12.7	2	0.07
15	46 Orionis ϵ	1.8	...	5	30	28.74	91	16	27.8	1	0.14
16	53 Orionis κ	2.2	...	5	42	23.76	99	42	35.9	3	0.14
17	31 Geminorum ξ	3.4	...	6	38	56.87	76	59	0.3	3	0.15
18	9 Canis Maj. α (<i>Sirius</i>) ...	1.4	...	6	40	10.02	106	33	41.5	1	0.16
19	51 Cephei (<i>Hev.</i>)	5.3	...	6	47	16.51	2	46	44.2	3	0.19
20	14 Canis Majoris θ	4.2	...	6	48	56.42	101	53	51.1	1	0.16
21	W. B. E. VII. 467	9.5	5	7	17	30.14	81	12	17.2	5	0.15
22	3 Canis Minoris β	3.1	...	7	21	1.37	81	29	0.5	4	0.18
23	ξ Argus	3.4	...	7	44	32.47	114	34	35.3	1	0.17
24	17 Cancri β	3.8	...	8	10	23.15	80	27	58.3	1	0.27
25	43 Cancri γ	4.8	...	8	36	44.78	68	7	33.0	2	0.26
26	65 Cancri α	4.3	...	8	52	18.38	77	42	18.2	1	0.27
27	14 Leonis ϵ	3.8	...	9	35	7.10	79	36	40.4	1	0.32
28	24 Leonis μ	4.1	...	9	46	20.13	63	27	38.8	2	0.32
29	R. P. L. 72	5.9	...	10	13	5.83	5	10	29.3	2	0.54
30	42 Hydræ μ	4.1	...	10	20	37.48	106	15	34.6	3	0.33
31	58 Leonis d	5.0	...	10	54	43.48	85	46	32.6	6	0.34
32	84 Leonis τ	5.1	...	11	22	7.56	86	31	16.5	2	0.34
33	8 Virginis π	4.4	...	11	55	49.6	82	45	18.8	4	0.40
34	R. P. L. 92	6.7	...	12	13	31.41	2	56	12.0	4	0.63
35	7 Corvi δ^a	3.1	...	12	24	1.15	105	53	8.9	6	0.39

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		"	"	"	"	"	"	
1	21 Andromedæ α ...	+ 3·0805	+ 0·0182	+ 0·010	- 20·053	+ 0·013	+ 0·16	3215
2	8 Ceti ε ...	+ 3·0592	- 0·0023	- 0·003	- 20·018	+ 0·034	+ 0·03	14
3	63 Piscium δ ...	+ 3·1027	+ 0·0079	+ 0·004	- 19·705	+ 0·091	+ 0·04	85
4	43 Arietis σ ...	+ 3·3026	+ 0·0130	- 0·000	- 15·062	+ 0·323	+ 0·04	400
5	1 Tauri ο ...	+ 3·2272	+ 0·0115	- 0·005	- 12·974	+ 0·364	+ 0·07	477
6	18 Eridani ε ...	+ 2·8900	+ 0·0055	- 0·068	- 12·373	+ 0·336	- 0·01	493
7	37 Tauri A¹ ...	+ 3·5325	+ 0·0153	+ 0·005	- 10·178	+ 0·447	+ 0·06	554
8	54 Tauri γ ...	+ 3·4005	+ 0·0115	+ 0·007	- 8·998	+ 0·446	+ 0·03	583
9	57 Eridani μ ...	+ 2·9965	+ 0·0055	- 0·000	- 6·871	+ 0·413	+ 0·00	657
10	R. P. L. 37 ...	+ 20·5128	+ 1·4734	...	- 5·877	+ 2·863	...	...
11	19 Orionis β ...	+ 2·8814	+ 0·0040	- 0·001	- 4·417	+ 0·412	- 0·01	736
12	R. P. L. 40 ...	+ 18·6117	+ 0·5766	...	- 2·977	+ 2·686	...	...
13	34 Orionis δ ...	+ 3·0636	+ 0·0038	- 0·001	- 2·944	+ 0·443	+ 0·01	787
14	11 Leporis α ...	+ 2·6147	+ 0·0029	- 0·001	- 2·813	+ 0·383	- 0·01	796
15	46 Orionis ε ...	+ 3·0429	+ 0·0035	- 0·002	- 2·576	+ 0·441	- 0·01	809
16	53 Orionis κ ...	+ 2·8442	+ 0·0027	- 0·002	- 1·539	+ 0·414	- 0·00	844
17	31 Geminorum ξ ...	+ 3·3771	- 0·0017	- 0·000	+ 3·302	+ 0·485	+ 0·20	989
18	9 Canis Majoris α ...	+ 2·6810	+ 0·0010	- 0·037	+ 3·497	+ 0·384	+ 1·20	994
19	51 Cophel (<i>Hev.</i>) ...	+ 30·0318	- 2·3507	- 0·040	+ 4·107	+ 4·286	+ 0·05	Gr.
20	14 Canis Majoris θ ...	+ 2·7971	+ 0·0004	- 0·011	+ 4·251	+ 0·397	+ 0·00	1011
21	W. B. E. VII. 467 ...	+ 3·2675	- 0·0038	...	+ 6·653	+ 0·447	...	...
22	3 Canis Minoris β ...	+ 3·2603	- 0·0041	- 0·004	+ 6·942	+ 0·444	+ 0·03	1079
23	ξ Argûs ...	+ 2·5235	+ 0·0008	- 0·001	+ 8·833	+ 0·327	- 0·02	1132
24	17 Cancri β ...	+ 3·2615	- 0·0072	- 0·004	+ 10·804	+ 0·397	+ 0·04	1180
25	43 Cancri γ ...	+ 3·4884	- 0·0143	- 0·009	+ 12·671	+ 0·390	+ 0·03	1230
26	65 Cancri α ...	+ 3·2352	- 0·0098	+ 0·001	+ 13·695	+ 0·345	+ 0·02	1269
27	14 Leonis ο ...	+ 3·2175	- 0·0093	- 0·010	+ 16·178	+ 0·272	+ 0·02	1360
28	24 Leonis μ ...	+ 3·4401	- 0·0198	- 0·019	+ 16·738	+ 0·271	+ 0·05	1384
29	R. P. L. 72 ...	+ 9·7109	- 1·5738	- 0·096	+ 17·911	+ 0·629	- 0·04	1399
30	42 Hydri μ ...	+ 2·9086	+ 0·0040	- 0·010	+ 18·199	+ 0·171	+ 0·06	1451
31	58 Leonis d ...	+ 3·1001	- 0·0039	- 0·002	+ 19·245	+ 0·120	+ 0·01	1526
32	84 Leonis τ ...	+ 3·0859	- 0·0020	- 0·001	+ 19·780	+ 0·066	+ 0·01	1570
33	8 Virginis π ...	+ 3·0760	- 0·0022	- 0·003	+ 20·048	+ 0·002	+ 0·02	1618
34	R. P. L. 92 ...	+ 1·5355	+ 0·0036	+ 0·285	+ 20·019	- 0·022	+ 0·02	1656
35	7 Corvi δ² ...	+ 3·1121	+ 0·0118	- 0·014	+ 19·943	- 0·055	+ 0·15	1675

Mean Positions of Stars for 1887, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>°</i>	<i>'</i>	<i>"</i>		
36	29 Virginis γ^1 ...	3.5	...	12	35	56.08	90	49	42.5	6	0.43
37	43 Virginis δ ...	3.7	...	12	49	54.70	85	59	16.0	7	0.41
38	47 Virginis ϵ ...	3.0	...	12	56	33.07	78	25	58.1	5	0.42
39	4 Bootis τ ...	4.5	...	13	41	53.61	71	58	46.7	2	0.49
40	93 Virginis τ ...	4.3	...	13	55	53.76	87	54	29.0	2	0.49
41	22 Bootis f ...	5.4	...	14	21	12.08	70	15	54.5	2	0.49
42	R. P. L. 110 ...	7.1	...	14	52	5.09	3	34	59.5	3	0.32
43	37 Serpentis ϵ ...	3.7	...	15	45	10.99	85	10	52.2	1	0.55
44	20 Herculis γ ...	3.8	...	16	16	55.96	70	34	52.8	1	0.55
45	13 Ophiuchi ζ ...	2.8	...	16	30	56.13	100	20	14.4	1	0.55
46	35 Ophiuchi η ...	2.6	...	17	3	53.91	105	35	1.8	2	0.59
47	42 Ophiuchi θ ...	3.4	...	17	15	4.11	114	53	8.8	2	0.59
48	49 Ophiuchi σ ...	4.4	...	17	20	54.41	85	45	37.3	2	0.59
49	23 Ursæ Minoris δ ...	4.3	...	18	8	45.85	3	23	19.2	5	0.22
50	λ Ursæ Minoris ...	6.5	...	19	36	47.33	1	2	23.7	1	0.25
51	53 Aquilæ α (<i>Altair</i>) ...	1.0	...	19	45	16.19	81	25	42.2	2	0.75
52	65 Aquilæ θ ...	3.4	...	20	5	28.41	91	9	18.8	3	0.76
53	2 Delphini ϵ ...	4.1	...	20	27	48.84	79	4	46.2	2	0.77
54	2 Aquarii ϵ ...	3.8	...	20	41	33.46	99	54	29.9	1	0.77
55	61 Cygni—1st ...	5.5	...	21	1	49.83	51	48	16.3	1	0.75
56	48 Aquarii γ ...	4.1	...	22	15	49.15	91	57	21.6	2	0.84
57	73 Aquarii λ ...	3.8	...	22	46	43.01	98	10	48.7	4	0.86
58	R. P. L. 155 ...	7.0	...	23	24	19.77	4	12	16.2	4	0.60

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Authority.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
36	29 Virginis γ^1 ...	+ 3·0754	+ 0·0043	— 0·039	+ 19·808	— 0·078	— 0·02	1698
37	43 Virginis δ ...	+ 3·0522	+ 0·0025	— 0·034	+ 19·580	— 0·108	+ 0·05	1728
38	47 Virginis ϵ ...	+ 3·0056	— 0·0007	— 0·019	+ 19·447	— 0·114	— 0·03	1735
39	4 Bootis τ ...	+ 2·8854	— 0·0007	— 0·035	+ 18·104	— 0·188	— 0·04	1810
40	93 Virginis τ ...	+ 3·0488	+ 0·0064	— 0·001	+ 17·543	— 0·222	+ 0·03	1829
41	22 Bootis f ...	+ 2·7953	+ 0·0009	— 0·006	+ 16·366	— 0·242	— 0·03	1864
42	R. P. L. 110 ...	— 11·4956	+ 2·9735	...	+ 14·661	+ 1·138	...	...
43	37 Serpentis ϵ ...	+ 2·9787	+ 0·0066	+ 0·007	+ 11·128	— 0·365	— 0·06	2005
44	20 Herculis γ ...	+ 2·6480	+ 0·0038	— 0·005	+ 8·718	— 0·351	— 0·05	2084
45	13 Ophiuchi ζ ...	+ 3·2980	+ 0·0087	— 0·001	+ 7·599	— 0·447	— 0·04	2109
46	35 Ophiuchi η ...	+ 3·4342	+ 0·0073	+ 0·000	+ 4·861	— 0·487	— 0·10	2171
47	42 Ophiuchi θ ...	+ 3·6807	+ 0·0080	— 0·002	+ 3·907	— 0·528	+ 0·04	2189
48	49 Ophiuchi σ ...	+ 2·9747	+ 0·0037	— 0·002	+ 3·404	— 0·428	— 0·02	2206
49	23 Ursæ Minoris δ ...	— 19·4892	— 0·2530	+ 0·026	— 0·767	+ 2·841	— 0·04	2395
50	λ Ursæ Minoris ...	— 64·1043	— 28·7964	— 0·050	— 8·219	+ 8·533	+ 0·01	2795
51	53 Aquilæ α ...	+ 2·8918	— 0·0014	+ 0·035	— 8·890	— 0·374	— 0·38	2524
52	65 Aquilæ θ ...	+ 3·0955	— 0·0042	— 0·000	— 10·438	— 0·332	— 0·01	2576
53	2 Delphini ϵ ...	+ 2·8663	— 0·0013	— 0·001	— 12·056	— 0·330	+ 0·02	2642
54	2 Aquarii ϵ ...	+ 3·2503	— 0·0084	— 0·000	— 12·904	— 0·356	+ 0·03	2681
55	61 Cygni—1st ...	+ 2·3347	+ 0·0044	+ 0·344	— 14·288	— 0·233	— 3·23	2744
56	48 Aquarii γ ...	+ 3·0925	— 0·0042	+ 0·007	— 18·017	— 0·191	— 0·02	2943
57	73 Aquarii λ ...	+ 3·1328	— 0·0063	— 0·002	— 19·036	— 0·137	— 0·04	3019
58	R. P. L. 155 ...	+ 0·2534	— 0·3341	...	— 19·811	+ 0·003

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